

APPENDIX A: PLAN & PROFILE DRAWINGS

CALIFORNIA HIGH-SPEED TRAIN

Conceptual Engineering Plans

In-Progress Draft
Not for Construction

Los Angeles To San Diego

Subsection 1-Los Angeles Union Station
to Ontario Int'l Airport

March 3, 2011

Mike Zdon
Project Manager

HNTB

Dana C. Hook
Engineering Manager

HNTB

 CALIFORNIA
High-Speed Rail Authority

 U.S. Department of Transportation
Federal Railroad Administration



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Sheet No.	Drawing No.	Title Description 1	Alignment Segment	Title Description 2	Title Description 3
1	B1001	Subsection 1-LAUS to Ontario Int'l Airport		Index of Drawings 1	
2	B1001	Subsection 1-LAUS to Ontario Int'l Airport		Index of Drawings 2	
3	B2001	Subsection 1-LAUS to Ontario Int'l Airport		Symbols, Abbreviations, & General Notes	
4	B3001	Subsection 1-LAUS to Ontario Int'l Airport		Key Map 1	
5	B3002	Subsection 1-LAUS to Ontario Int'l Airport		Key Map 2	
6	B3003	Subsection 1-LAUS to Ontario Int'l Airport		Key Map 3	
7	B3004	Subsection 1-LAUS to Ontario Int'l Airport		Key Map 4	
8	B3005	Subsection 1-LAUS to Ontario Int'l Airport		Key Map 5	
9	B3006	Subsection 1-LAUS to Ontario Int'l Airport		Key Map 6	
10	TJ1001	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.1	S1-A1.1: I-10 via North Above Grade Approach	Plan and Profile
11	TJ1001A	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.2.1	S1-A1.2.1: I-10 via North Below Grade Approach	Plan and Profile
12	TJ1001B	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.2.2	S1-A1.2.2: I-10 via North Below Grade Approach	Plan and Profile
13	TJ1002	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.3	S1-A1.3: I-10 via Mission Road Above Grade	Plan and Profile
14	TJ1002A	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.4	S1-A1.4: I-10 via Mission Road Below Grade	Plan and Profile
15	TJ1003	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.5	S1-A1.5: I-10 via I-5/First Street Above Grade	Plan and Profile
16	TJ1003A	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.6	S1-A1.6: I-10 via I-5/First Street Below Grade	Plan and Profile
17	TJ1004	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.5	S1-A1.5: I-10 via I-5/First Street Above Grade	Plan and Profile
18	TJ1004A	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.6	S1-A1.6: I-10 via I-5/First Street Below Grade	Plan and Profile
19	TJ1005	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.7	S1-A1.7: I-10 via I-5/Sixth Street Above Grade	Plan and Profile
20	TJ1005A	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1.8	S1-A1.8: I-10 via I-5/Sixth Street Below Grade	Plan and Profile
21	TJ1006	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1	S1-A1: S1-A1: LAUS to I-605 via I-10	Plan and Profile
22	TJ1007	Subsection 1-LAUS to Ontario Int'l Airport	S1-A1	S1-A1: S1-A1: LAUS to I-605 via I-10	Plan and Profile
23	TJ1008	Subsection 1-LAUS to Ontario Int'l Airport	S1-A2.1	S1-A2.1: SR-60 via First Street Above Grade	Plan and Profile
24	TJ1008A	Subsection 1-LAUS to Ontario Int'l Airport	S1-A2.2	S1-A2.2: SR-60 via First Street Below Grade	Plan and Profile
25	TJ1009	Subsection 1-LAUS to Ontario Int'l Airport	S1-A2.3	S1-A2.3: SR-60 via Sixth Street Below Grade	Plan and Profile
26	TJ1010	Subsection 1-LAUS to Ontario Int'l Airport	S1-A2.1	S1-A2.1: SR-60 via First Street Above Grade	Plan and Profile
27	TJ1010A	Subsection 1-LAUS to Ontario Int'l Airport	S1-A2.2	S1-A2.2: SR-60 via First Street Below Grade	Plan and Profile
28	TJ1011	Subsection 1-LAUS to Ontario Int'l Airport	S1-A2	S1-A2: LAUS to I-605 via SR-60	Plan and Profile
29	TJ1012	Subsection 1-LAUS to Ontario Int'l Airport	S1-A2	S1-A2: LAUS to I-605 via SR-60	Plan and Profile
30	TJ1013	Subsection 1-LAUS to Ontario Int'l Airport	S1-A3	S1-A3: LAUS to East of I-605 via UPRR	Plan and Profile
31	TJ1014	Subsection 1-LAUS to Ontario Int'l Airport	S1-A3	S1-A3: LAUS to East of I-605 via UPRR	Plan and Profile
32	TJ1015	Subsection 1-LAUS to Ontario Int'l Airport	S1-A7	S1-A7: UPRR East of I-605 to Ontario Airport	Plan and Profile
33	TJ1016	Subsection 1-LAUS to Ontario Int'l Airport	S1-A7	S1-A7: UPRR East of I-605 to Ontario Airport	Plan and Profile
34	TJ1017	Subsection 1-LAUS to Ontario Int'l Airport	S1-A7	S1-A7: UPRR East of I-605 to Ontario Airport	Plan and Profile
35	TJ1018	Subsection 1-LAUS to Ontario Int'l Airport	S1-A7	S1-A7: UPRR East of I-605 to Ontario Airport	Plan and Profile
36	TJ1019	Subsection 1-LAUS to Ontario Int'l Airport	S1-A7	S1-A7: UPRR East of I-605 to Ontario Airport	Plan and Profile
37	TJ1020	Subsection 1-LAUS to Ontario Int'l Airport	S1-A3.1/A4.1	S1-A3.1/A4.1: LAUS to UPRR via Sixth Street	Plan and Profile
38	TJ1020A	Subsection 1-LAUS to Ontario Int'l Airport	S1-A3.2/A4.2	S1-A3.2/A4.2: LAUS to UPRR via Redondo Jct	Plan and Profile
39	TJ1021	Subsection 1-LAUS to Ontario Int'l Airport	S1-A3.1/A4.1	S1-A3.1/A4.1: LAUS to UPRR via Sixth Street	Plan and Profile
40	TJ1021A	Subsection 1-LAUS to Ontario Int'l Airport	S1-A3.2/A4.2	S1-A3.2/A4.2: LAUS to UPRR via Redondo Jct	Plan and Profile
41	TJ1022	Subsection 1-LAUS to Ontario Int'l Airport	S1-A4	S1-A4: UPRR Adjacent Redondo Jct to I-10	Plan and Profile
42	TJ1023	Subsection 1-LAUS to Ontario Int'l Airport	S1-A4	S1-A4: UPRR Adjacent Redondo Jct to I-10	Plan and Profile
43	TJ1024	Subsection 1-LAUS to Ontario Int'l Airport	S1-A5	S1-A5: I-605 to Ontario Airport via Metrolink	Plan and Profile
44	TJ1025	Subsection 1-LAUS to Ontario Int'l Airport	S1-A5	S1-A5: I-605 to Ontario Airport via Metrolink	Plan and Profile
45	TJ1026	Subsection 1-LAUS to Ontario Int'l Airport	S1-A5	S1-A5: I-605 to Ontario Airport via Metrolink	Plan and Profile
46	TJ1027	Subsection 1-LAUS to Ontario Int'l Airport	S1-A5	S1-A5: I-605 to Ontario Airport via Metrolink	Plan and Profile
47	TJ1028	Subsection 1-LAUS to Ontario Int'l Airport	S1-A5	S1-A5: I-605 to Ontario Airport via Metrolink	Plan and Profile

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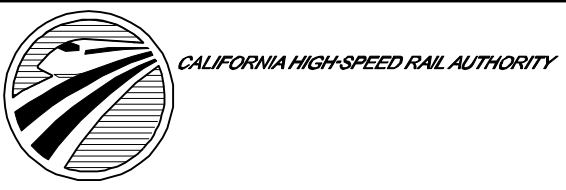
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IN CHARGE M. Zdon
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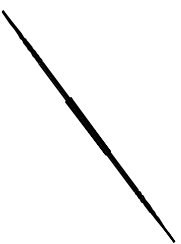
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 1-LAUS to Ontario Int'l Airport
Index of Drawings 1

CONTRACT NO.
DRAWING NO. B1001
SCALE None
SHEET NO. 1

SYMBOLS

-----	ALTERNATE ALIGNMENT
-.-.-.-.-	CITY/COUNTY BOUNDARIES
-----	ALONG CENTERLINE
.....	EXISTING GRADE
-----	MATCHLINE
-.-.-.-.-	EXISTING TRANSIT
-.-.-.-.-	PROPOSED TRANSIT
-----	EXISTING PROJECT
-----	PROPOSED PROJECT



STATION



TUNNEL PORTAL

ABBREVIATIONS

APPROX AVE/AV	APPROXIMATE AVENUE
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
C,CL	CENTER LINE
CLR	CLEARANCE
C.S.	POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
DIA	DIAMETER
E.	EAST
EXIST	EXISTING
Eq	ACTUAL SUPERELEVATION
EB	EASTBOUND
ELEV	ELEVATION
EQNAH	EQUATION AHEAD
EQNBK	EQUATION BACK
EU	UNBALANCED SUPERELEVATION
EXPY	EXPRESSWAY
FG	FINISHED GRADE
FWY	FREEWAY
HSR	HIGH-SPEED RAIL
HWY	HIGHWAY
I	INTERSTATE
L	LENGTH OF VERTICAL CURVE
Lc	LENGTH OF HORIZONTAL CURVE
Ls	LENGTH OF SPIRAL
LA	LOS ANGELES
LAUS	LOS ANGELES UNION STATION
LN	LANE
LOSSAN	LOS ANGELES SAN DIEGO RAIL CORRIDOR AUTHORITY
MAX	MAXIMUM
METROLINK	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
MIN	MINIMUM
MPH	MILES PER HOUR
MT-1	CALTRAIN MAINLINE TRACK
MT-2	CALTRAIN MAINLINE TRACK
N.	NORTH
NB	NORTHBOUND
OCS	OVERHEAD CONTACT SYSTEM
OG	ORIGINAL GROUND
PED	PEDESTRIAN
PKWY	PARKWAY
P.O.B.	POINT OF BEGINNING
P.O.E.	POINT OF END
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY

R	RADIUS
RD	ROAD
ROW, R/W	RIGHT OF WAY
S.	SOUTH
SANBAG	SAN BERNARDINO ASSOCIATION OF GOVERNMENTS
SB	SOUTHBOUND
S.C.	POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE
SDIA	SAN DIEGO INTERNATIONAL AIRPORT
SR	STATE ROUTE
ST	STREET
S.T.	POINT OF CHANGE FROM SPIRAL TO TANGENT
STA.	STATION
TO	TURNOUT
T.S.	POINT OF CHANGE FROM TANGENT TO SPRIAL
TYP	TYPICAL
UPRR	UNION PACIFIC RAILROAD
UTC	UNIVERSITY TOWNE CENTER
UTIL	UTILITIES
V	VELOCITY
W.	WEST
WB	WESTBOUND
WY	WAY
XING	CROSSING

GENERAL NOTES

1. ALL WORK, INCLUDING DESIGN WORK, SHALL CONFORM TO THE REQUIREMENTS OF THE HIGH SPEED RAIL AUTHORITY (FOR HIGH SPEED TRAIN FACILITIES) AND CALTRAIN DESIGN CRITERIA (FOR CALTRAIN FACILITIES).
2. TOPOGRAPHIC BASE MAPPING DATED APRIL 2008 WAS PROVIDED BY THE PCJPB. THE HORIZONTAL DATUM IS NAD83 AND THE VERTICAL DATUM IS NAVD88.
3. THE PROFILE CORRESPONDS TO THE ELEVATION AT THE TOP OF RAIL. THE LENGTHS OF LINES ARE BASED ON THE CENTER OF TRACK ALIGNMENT. UNLESS SEPARATE TRACK PROFILES ARE GIVEN, TRACKS PARALLEL TO THE DESIGNATED TRACK AT THE SAME TOP OF RAIL ELEVATIONS PROJECTED ON EITHER PERPENDICULAR OR RADIAL LINES FROM THE DESIGNATED TRACK CENTERLINES.
4. VERTICAL CLEARANCE VALUES ARE CALCULATED FROM THE BOTTOM OF THE HST GUIDEWAY TO THE TOP OF THE FACILITY BELOW, ASSUMING AN HST STRUCTURE DEPTH OF TEN FEET.

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CHECKED BY	R. Simon
IN CHARGE	M. Zdon
DATE	3-3-2011

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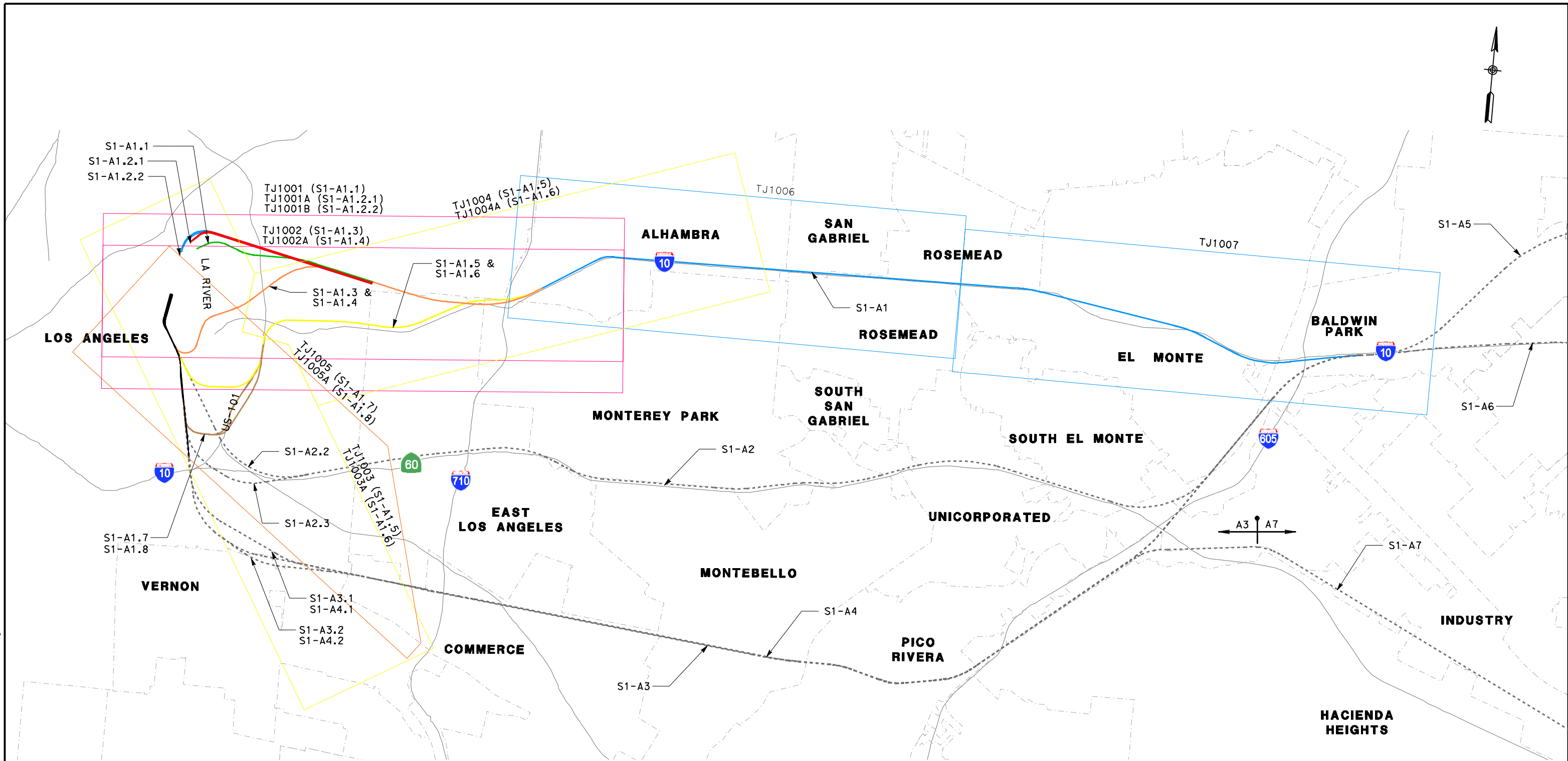
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 1-LAUS to Ontario Int'l Airport
Symbols, Abbreviations, & General Notes

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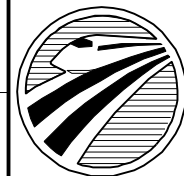
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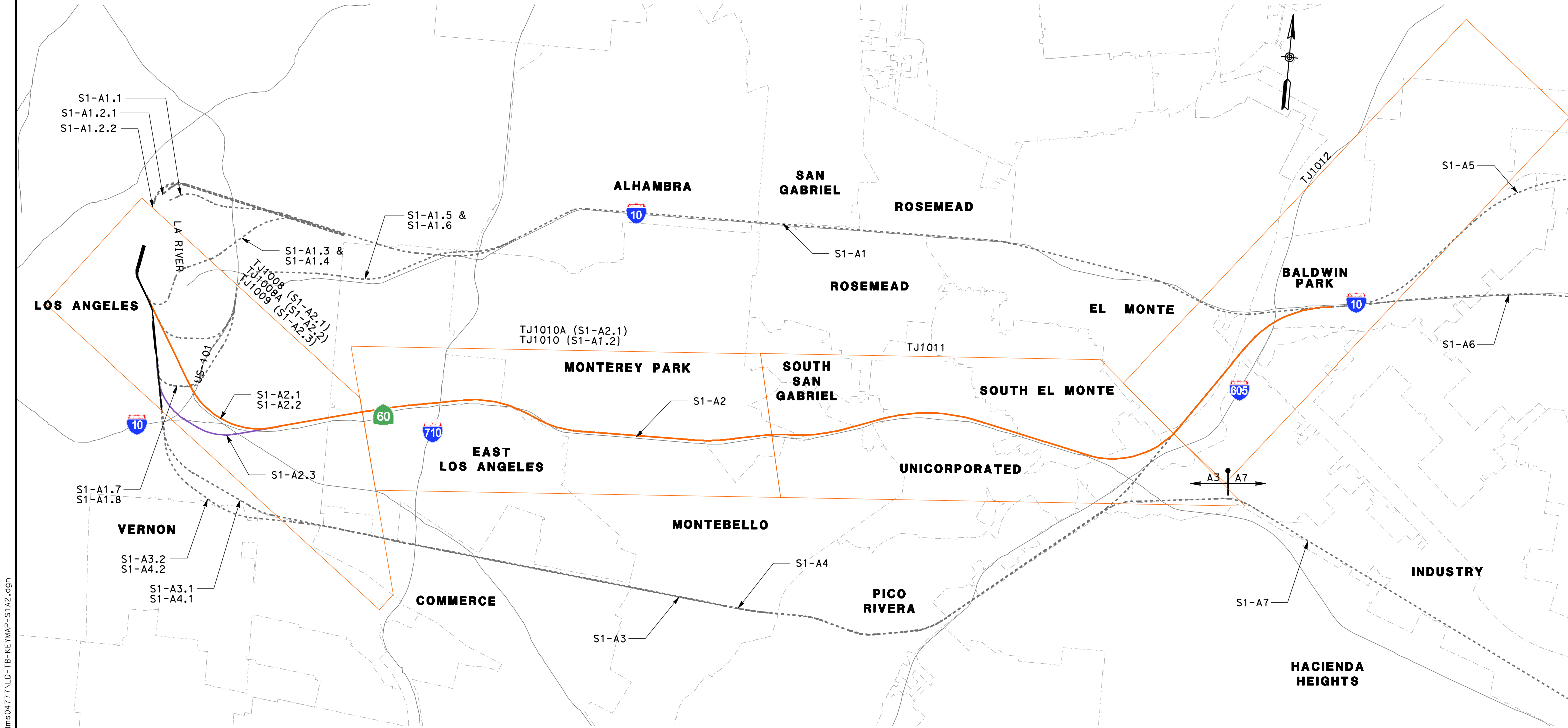
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 1-LAUS to Ontario Int'l Airport
Key Map 1

CONTRACT NO.
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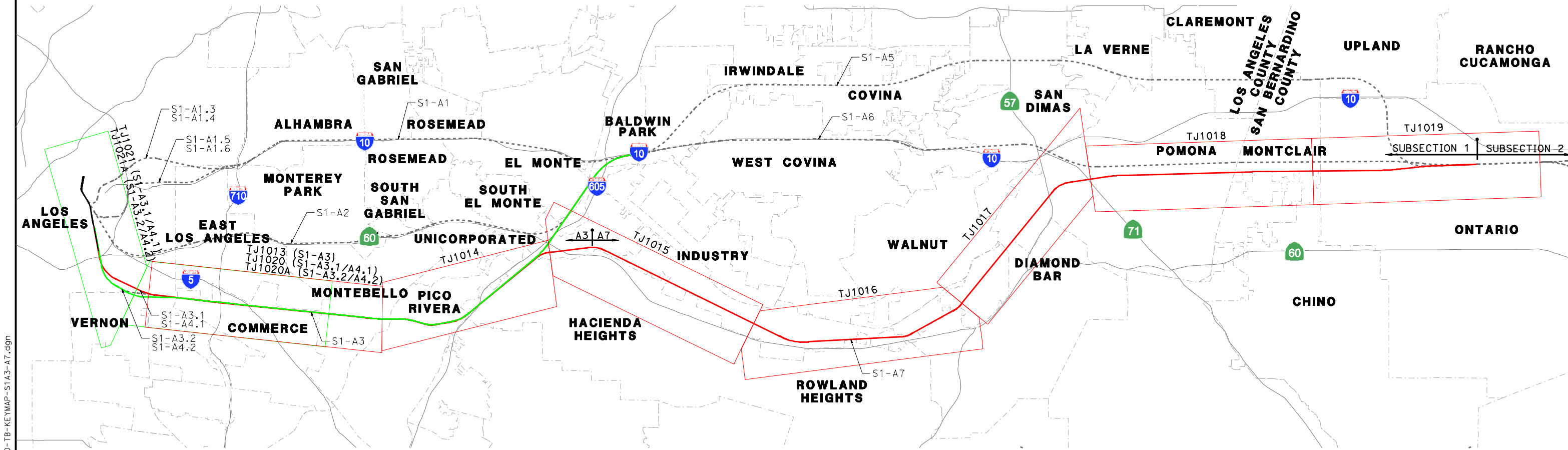
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 1-LAUS to Ontario Int'l Airport
Key Map 2

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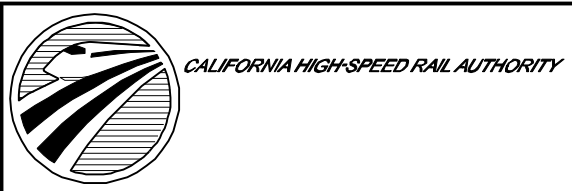
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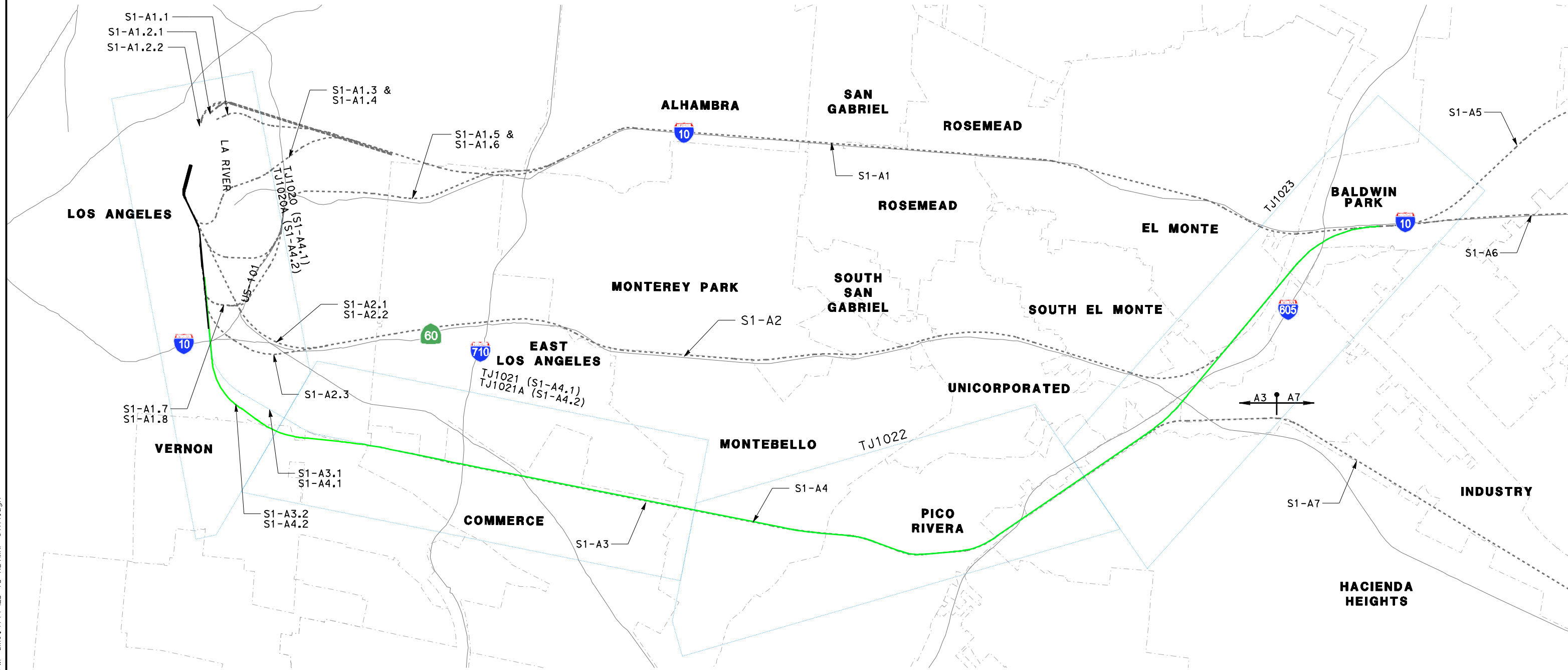


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LOS ANGELES TO SAN DIEGO SECTION

Subsection 1-LAUS to Ontario Int'l Airport
Key Map 3

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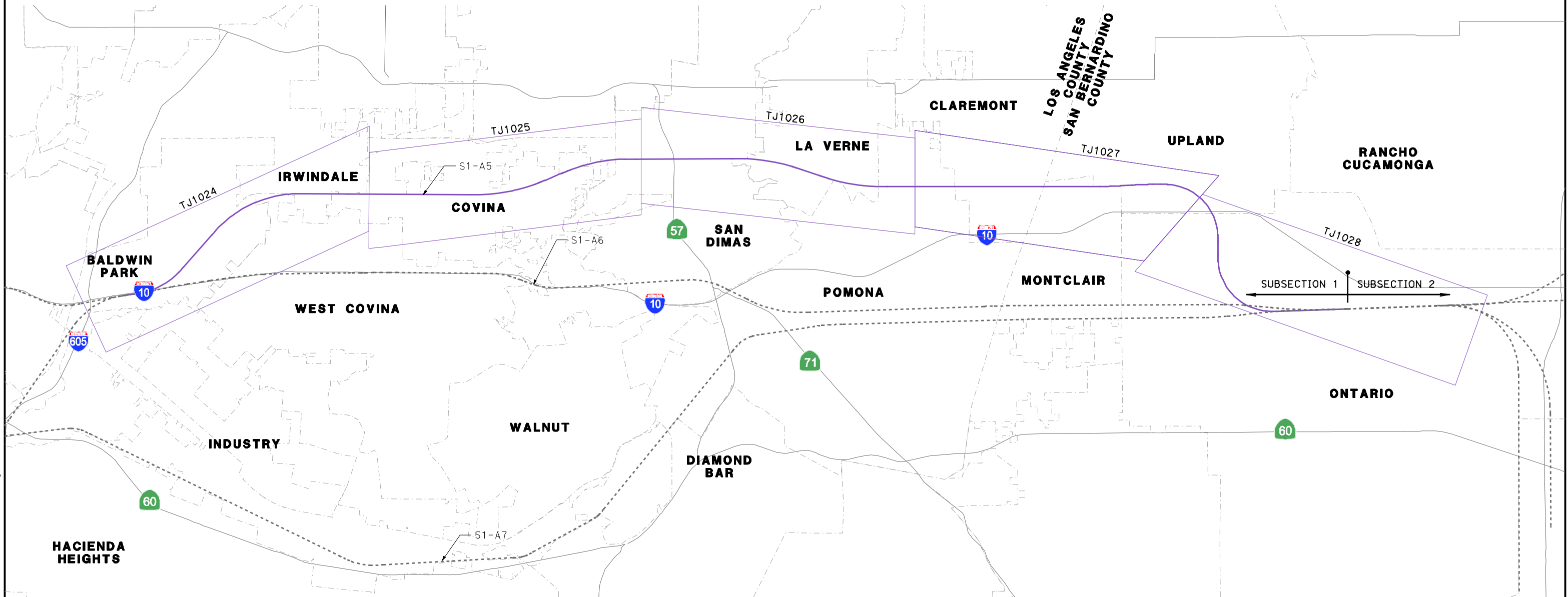


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LOS ANGELES TO SAN DIEGO SECTION

Subsection 1-LAUS to Ontario Int'l Airport
Key Map 4

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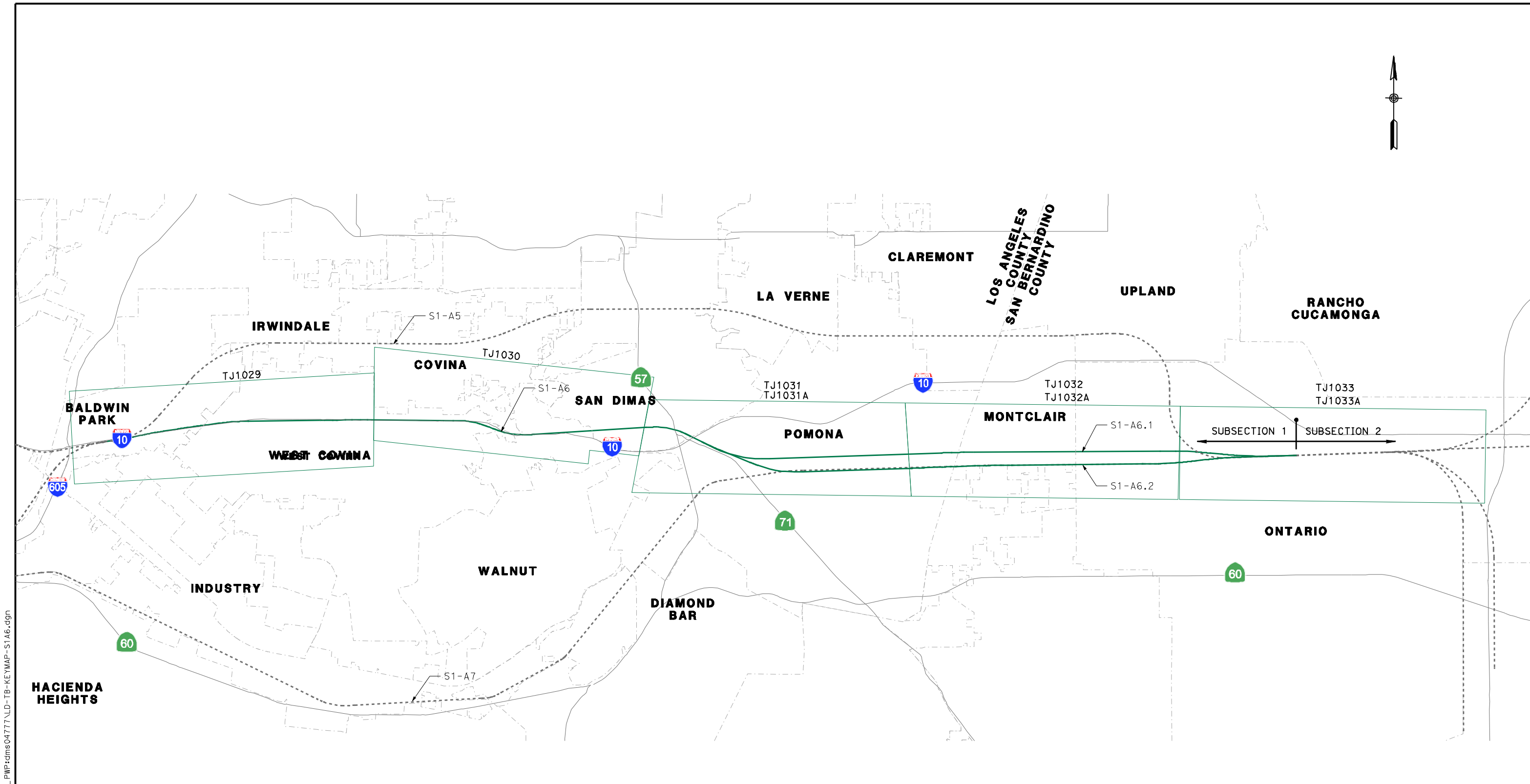
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

Subsection 1-LAUS to Ontario Int'l Airport
Key Map 5

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LOS ANGELES TO SAN DIEGO SECTION

Subsection 1-LAUS to Ontario Int'l Airport
Key Map 6

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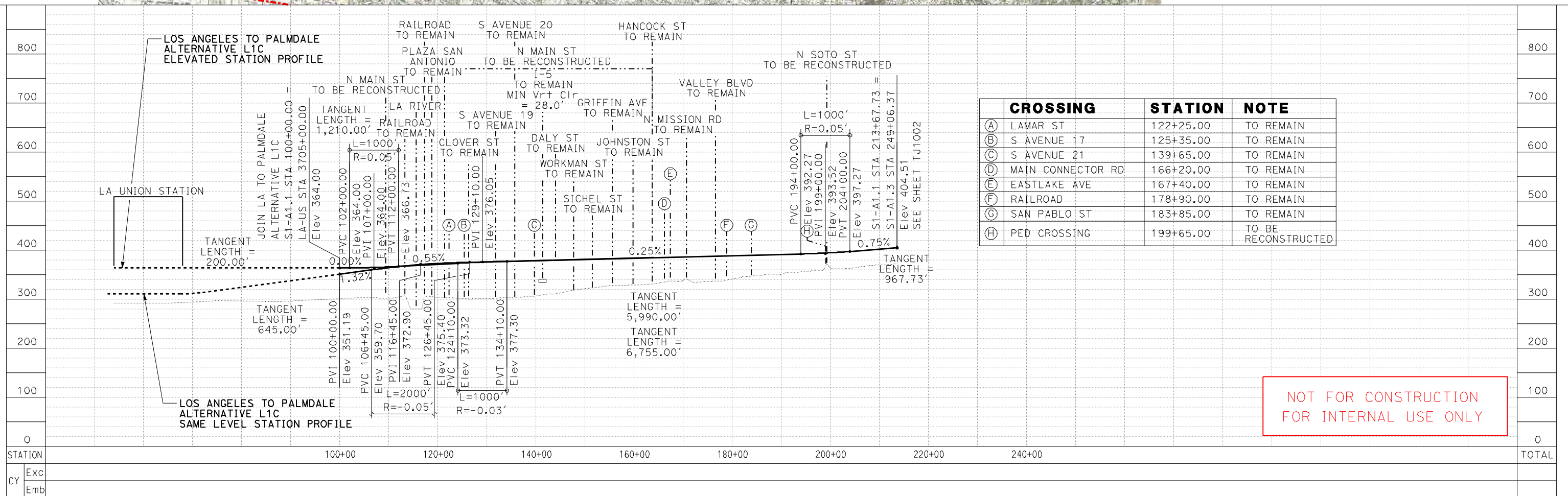
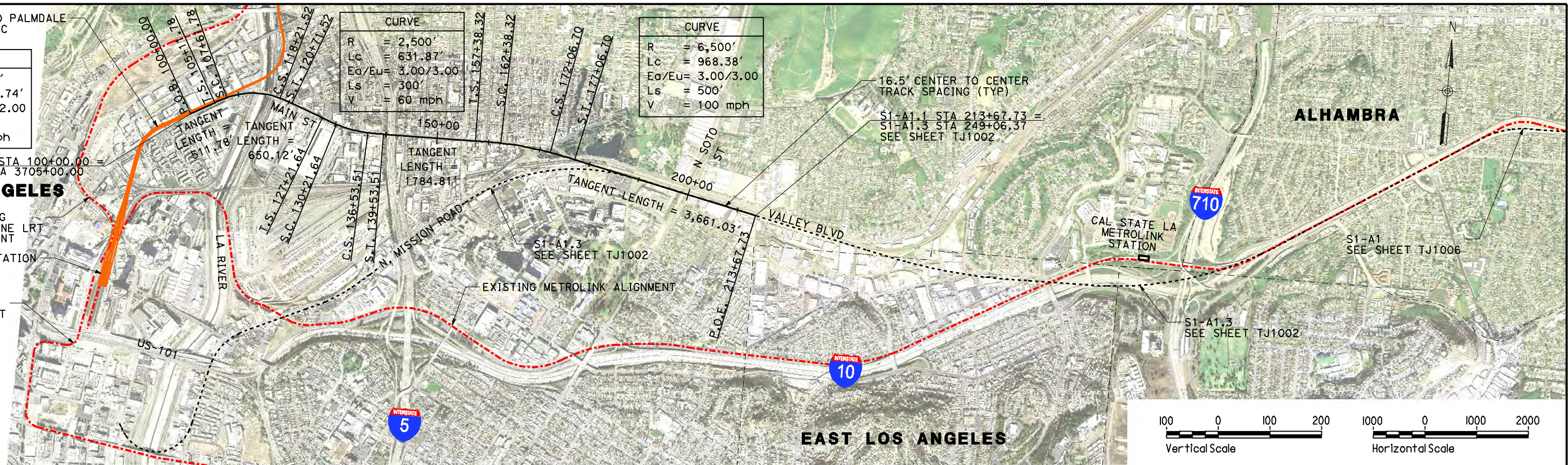
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Lc	= 1,059.74'
Ea/Eu	= 2.50/2.00
Ls	= 250'
V	= 40 mph

EXISTING
GOLD LINE LRT
ALIGNMENT

LA UNION STATION
ELEVATED

EXISTING
EASTSIDE LRT
ALIGNMENT

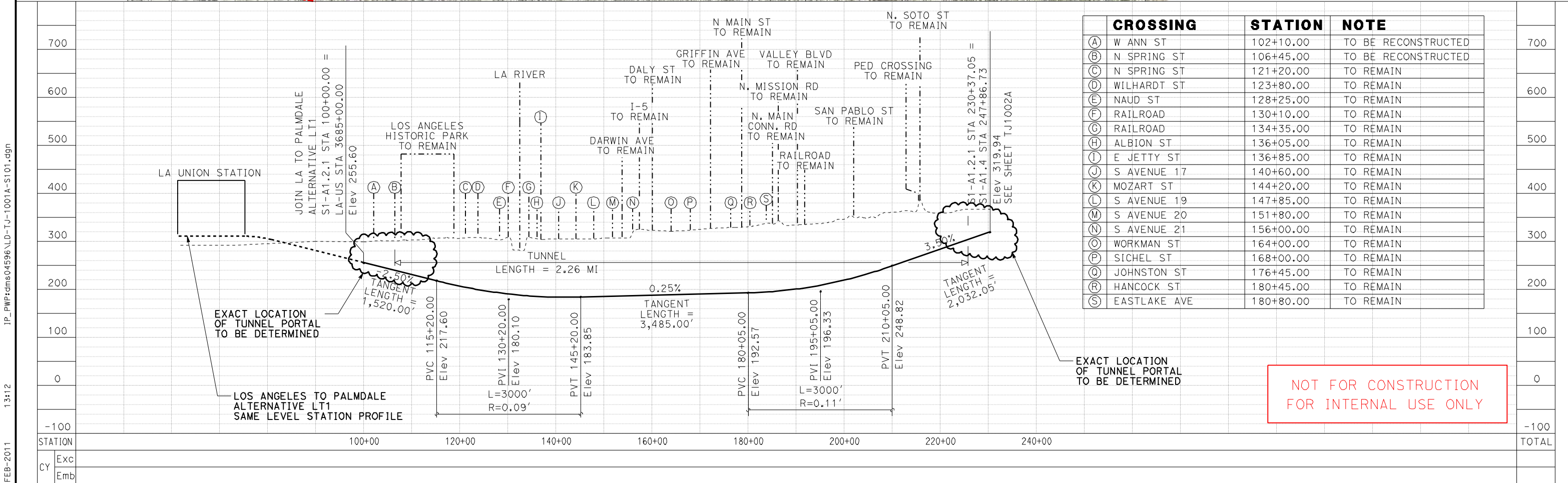
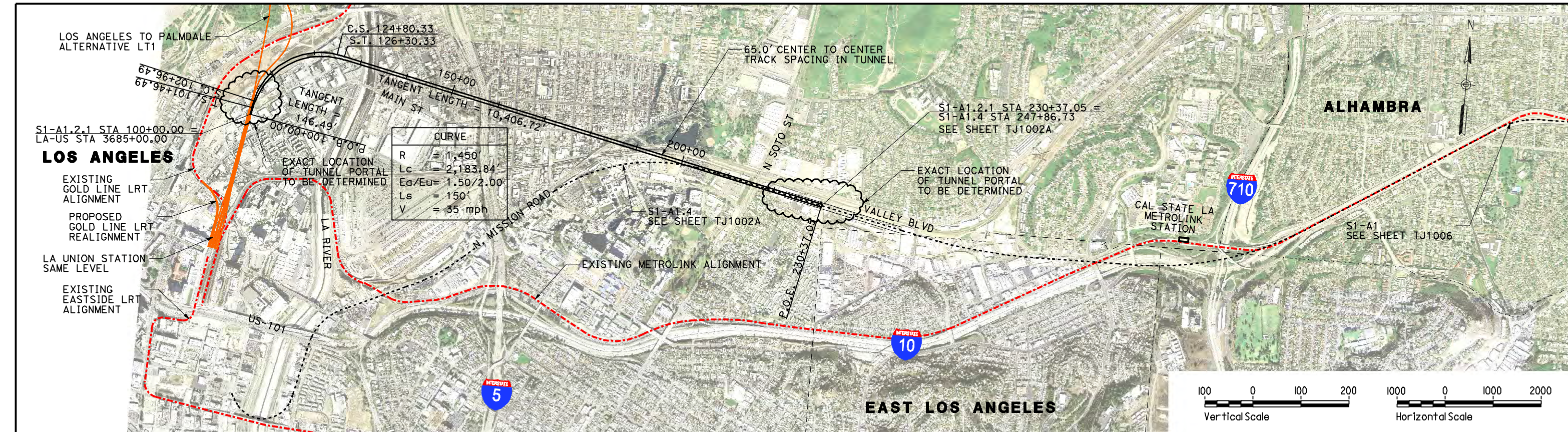
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	CROSSING	STATION	NOTE
(A)	LAMAR ST	122+25.00	TO REMAIN
(B)	S AVENUE 17	125+35.00	TO REMAIN
(C)	S AVENUE 21	139+65.00	TO REMAIN
(D)	MAIN CONNECTOR RD	166+20.00	TO REMAIN
(E)	EASTLAKE AVE	167+40.00	TO REMAIN
(F)	RAILROAD	178+90.00	TO REMAIN
(G)	SAN PABLO ST	183+85.00	TO REMAIN
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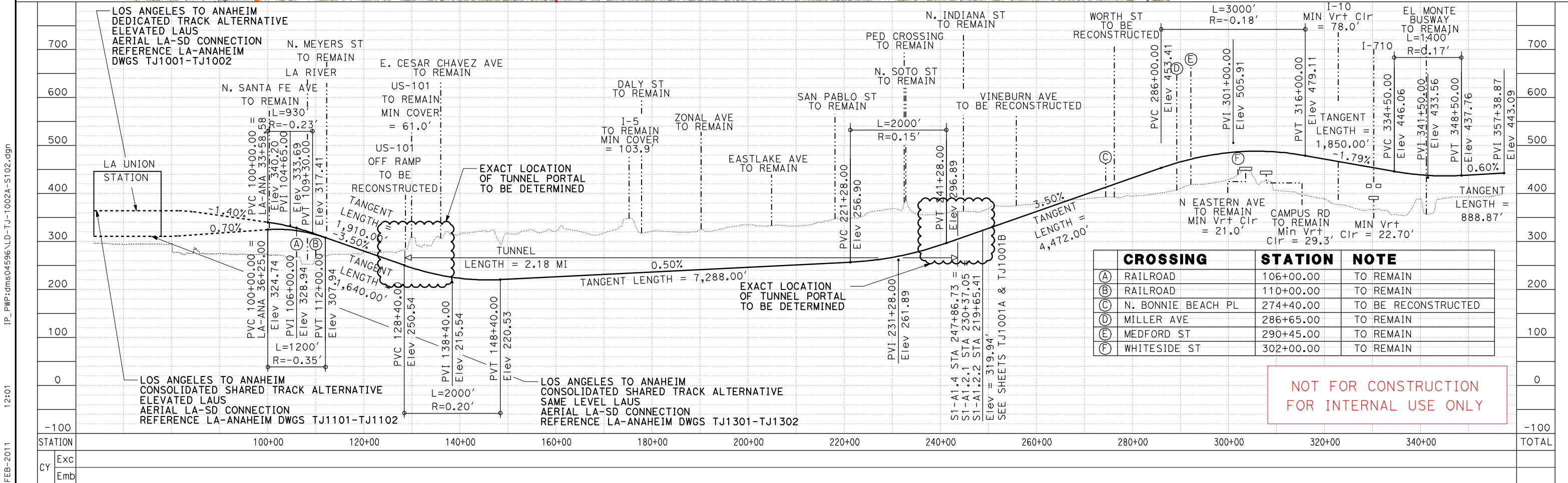
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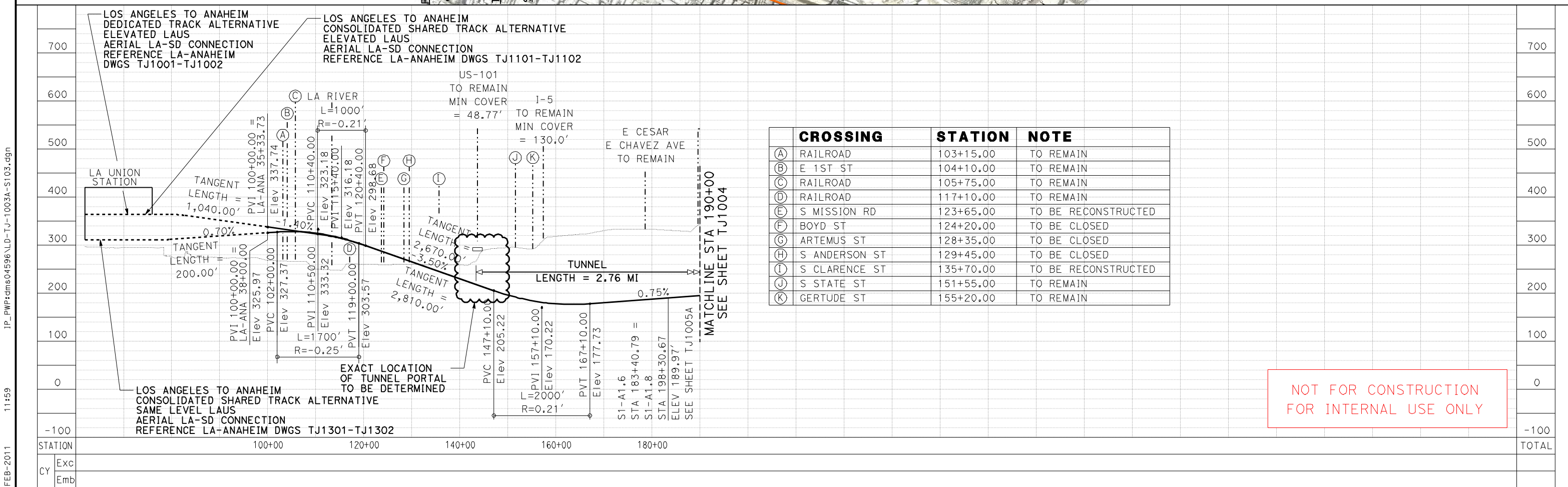
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CHECKED BY R. Simon				SCALE As Shown
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

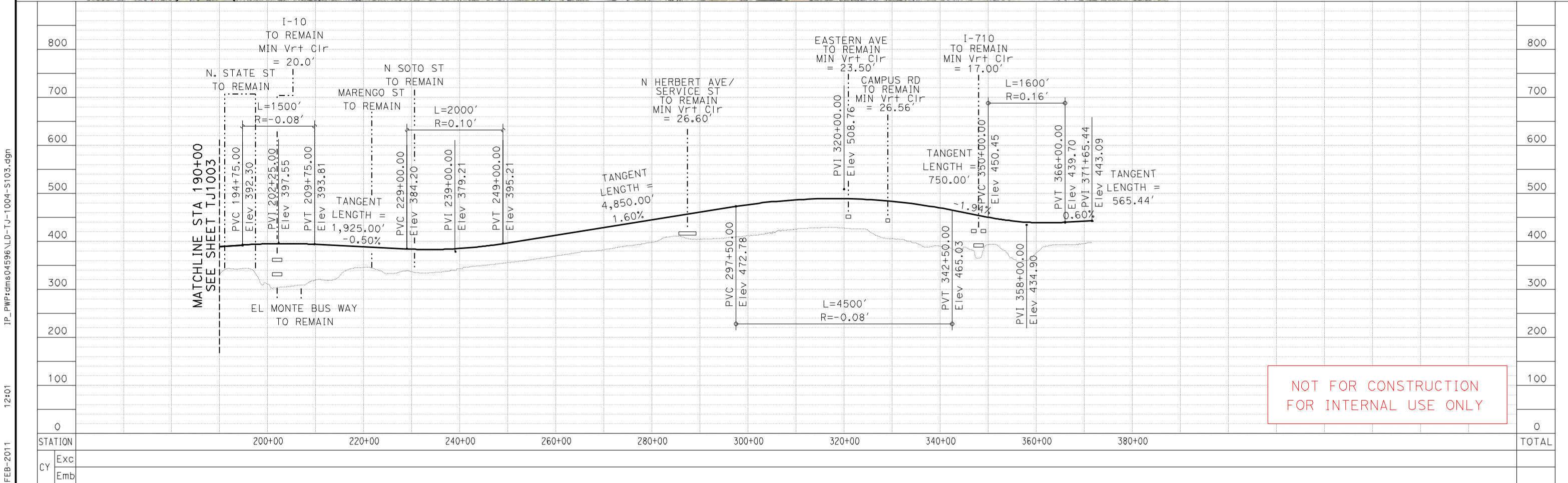
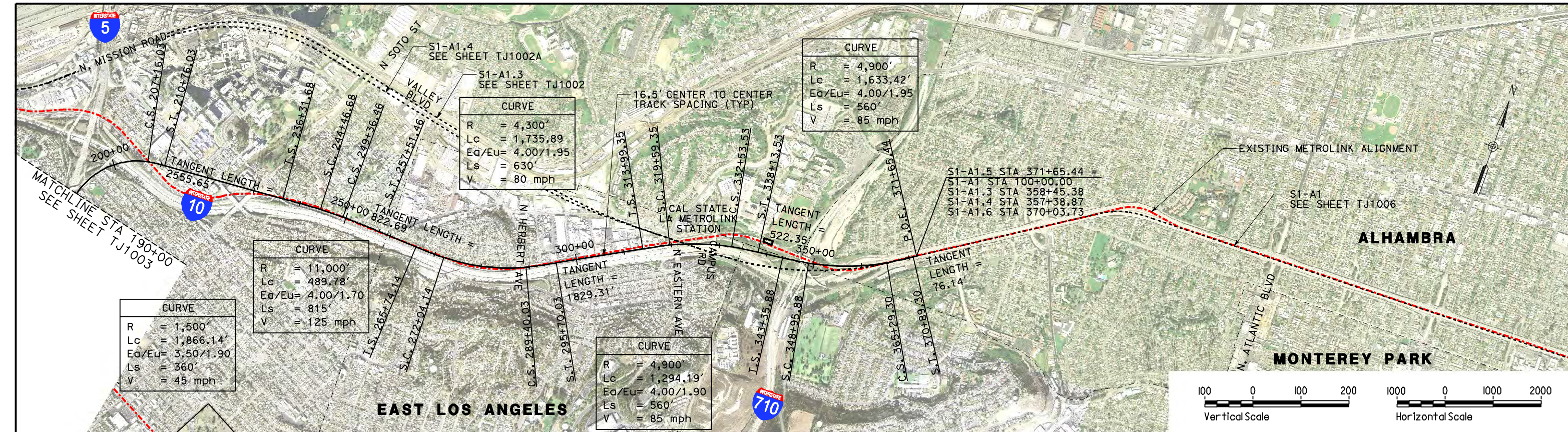
Subsection 1-LAUS to Ontario Int'l Airport
S1-A1.6: I-10 via I-5/First Street Below Grade
Plan and Profile

CONTRACT NO.

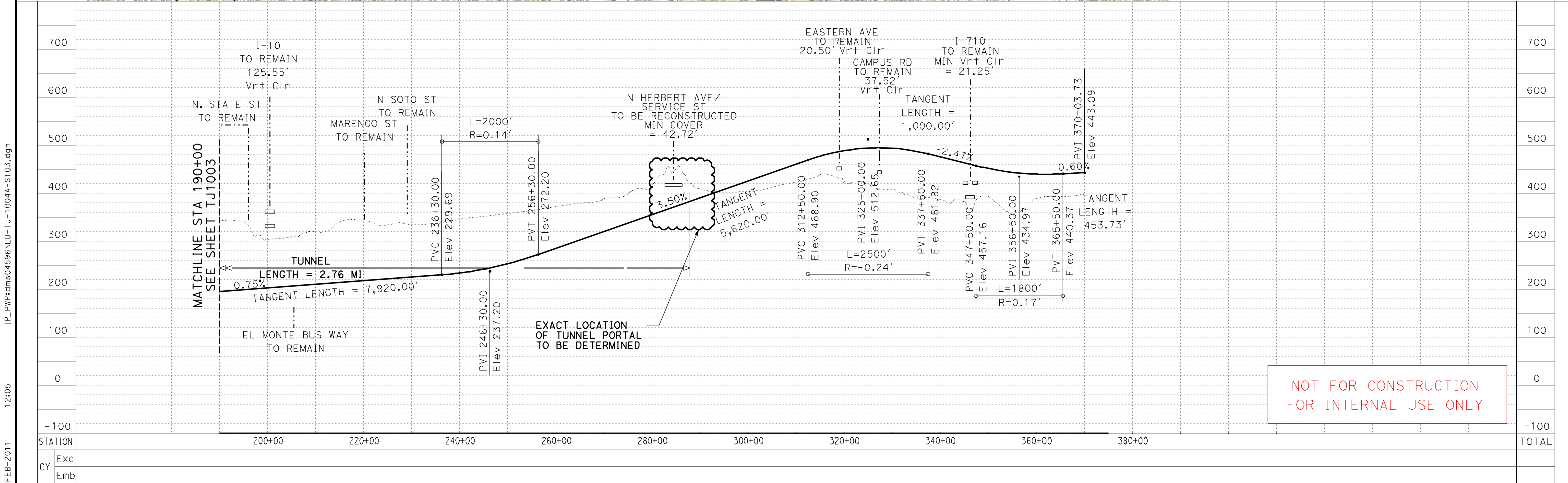
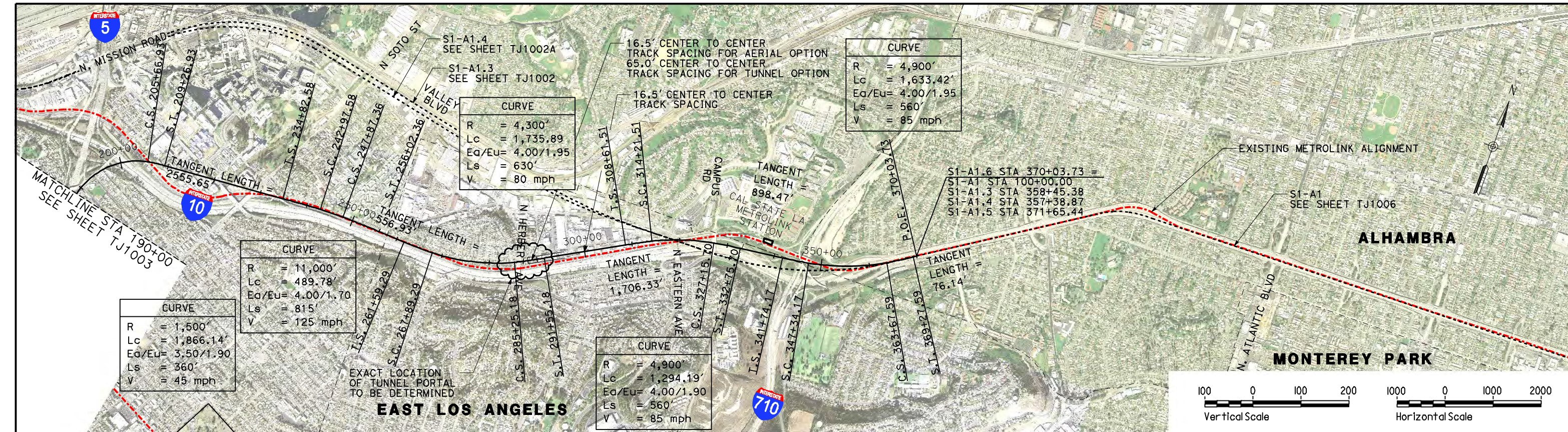
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SCALE
As Shown

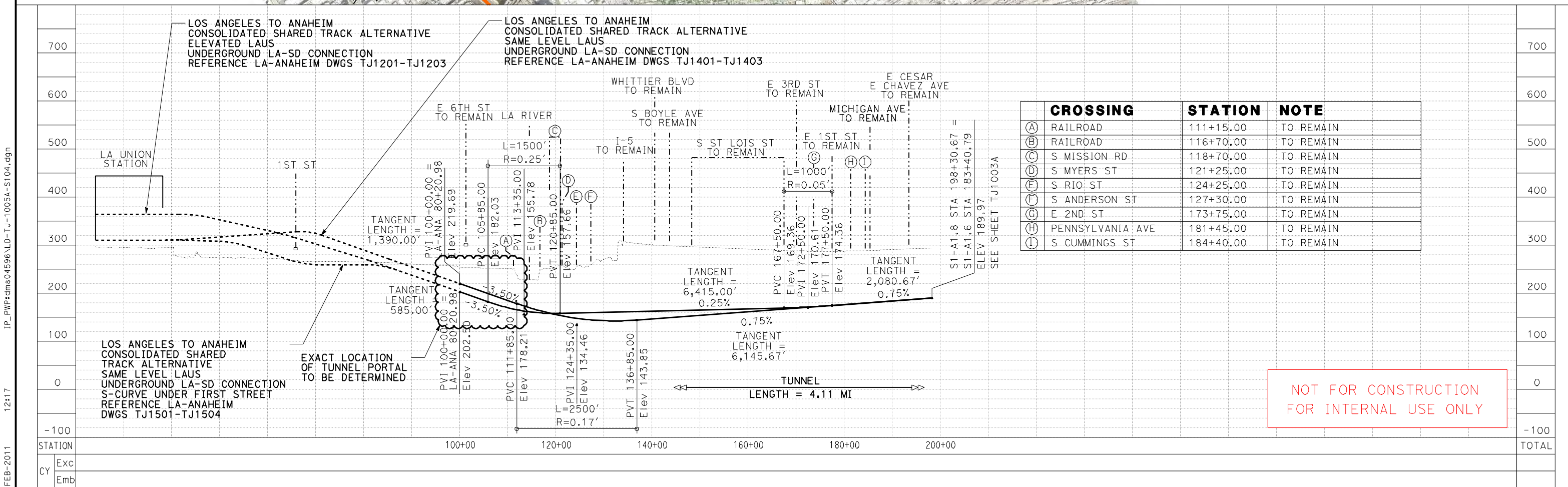
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. Kim
DRAWN BY
C. Swanson
CHECKED BY
R. Simon
IN CHARGE
M. Zdon
DATE
3-3-2011

HNTB
401 B Street
Suite 302
San Diego, CA 92101
CH2MHILL

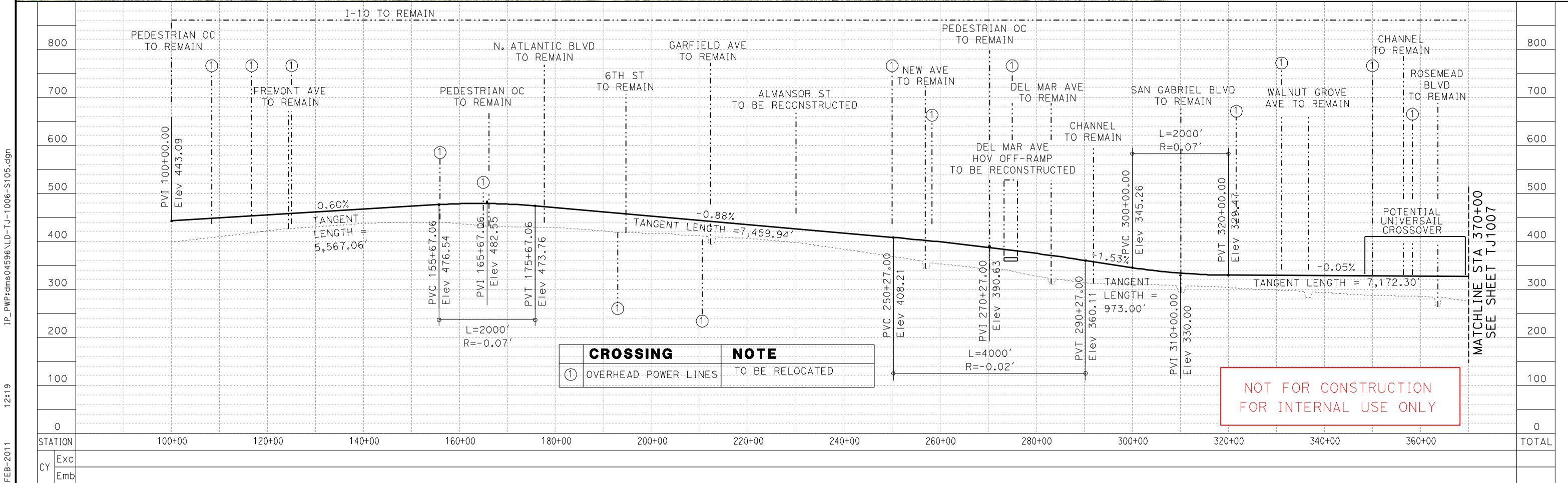
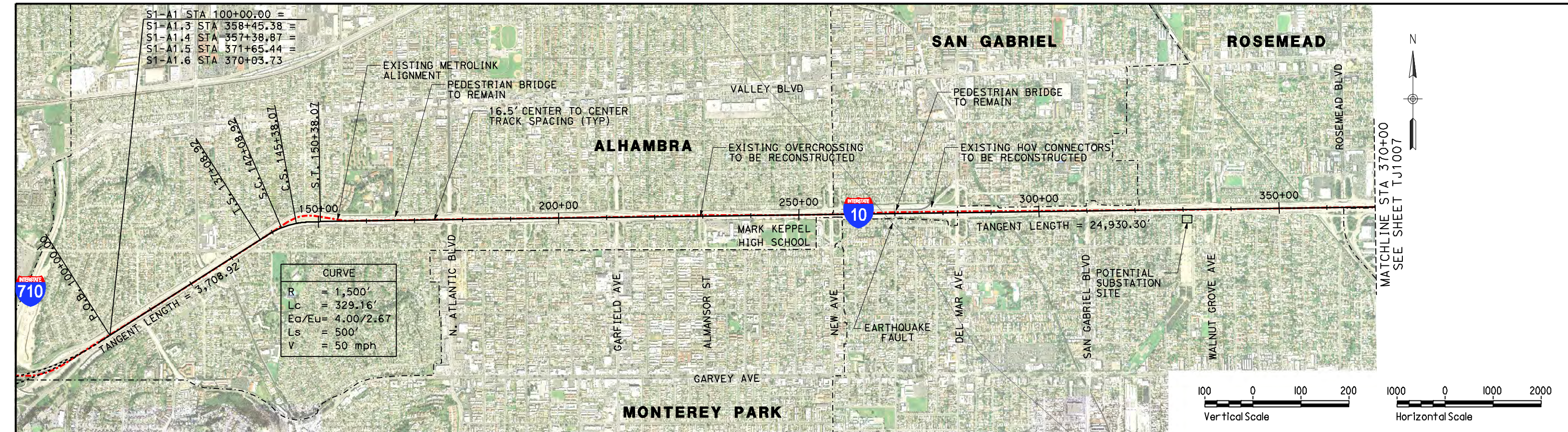
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

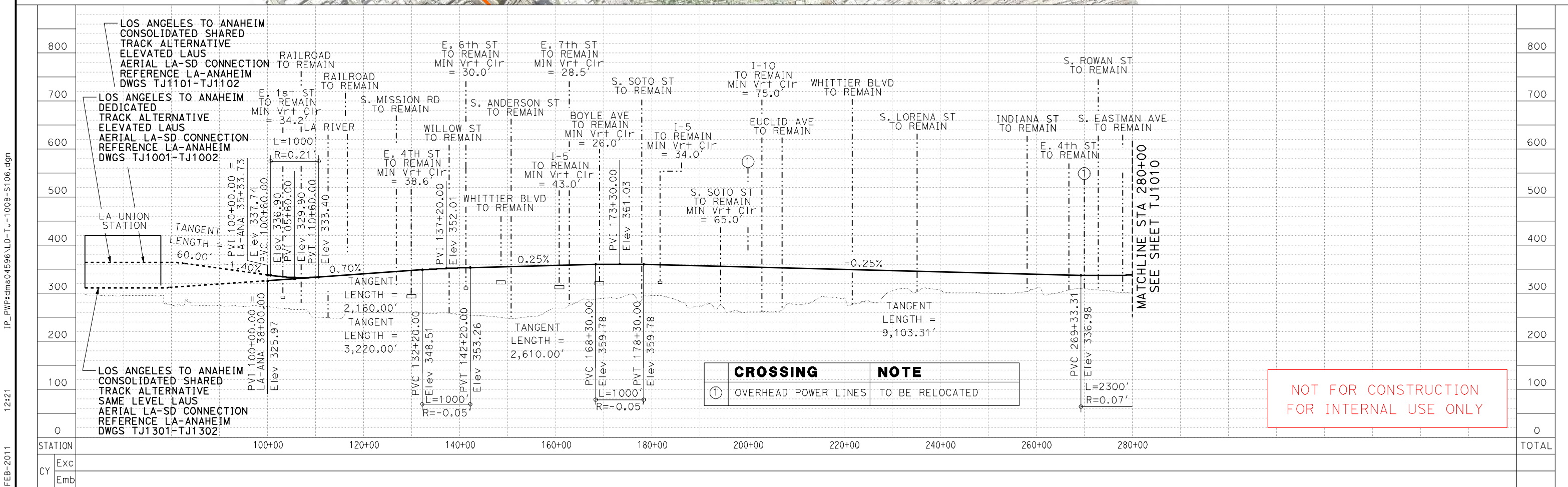
Subsection 1-LAUS to Ontario Int'l Airport
S1-A1.8: I-10 via I-5/Sixth Street Below Grade
Plan and Profile

CONTRACT NO.

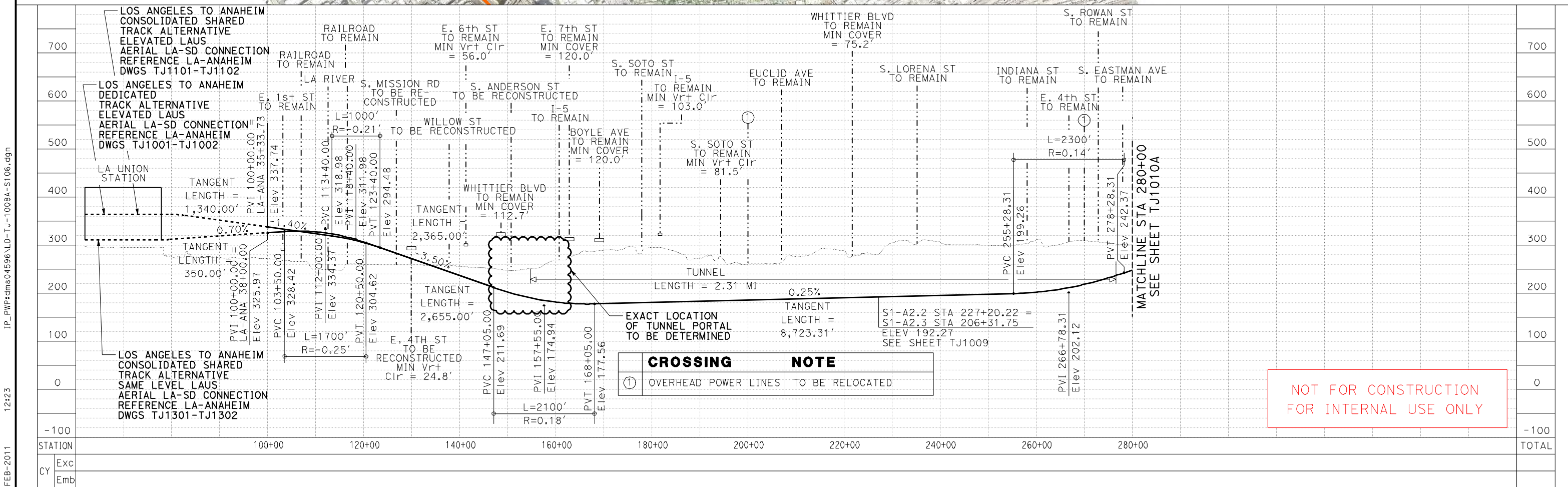
DRAWING NO.
TJ1005A
SCALE
As Shown
SHEET NO.
20



DESIGNED BY M. Kim DRAWN BY C. Swanson CHECKED BY R. Simon IN CHARGE M. Zdon DATE 3-3-2011					HNTB 401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED RAIL AUTHORITY		CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION Subsection 1-LAUS to Ontario Int'l Airport S1-A1: S1-A1: LAUS to I-605 via I-10 Plan and Profile		CONTRACT NO.
REV					DATE		BY		CHK		DRAWING NO. TJ1006
DATE					BY		CHK		APP		SCALE As Shown
DESCRIPTION					DATE		BY		CHK		SHEET NO. 21



<div>DESIGNED BY M. Kim DRAWN BY C. Swanson CHECKED BY R. Simon IN CHARGE M. Zdon DATE 3-3-2011</div>					<div>HNTB 401 B Street Suite 302 San Diego, CA 92101</div> <div>CH2MHILL</div>		<div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>		<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION</div> <div>Subsection 1-LAUS to Ontario Int'l Airport S1-A2.1: SR-60 via First Street Above Grade Plan and Profile</div>		<div>CONTRACT NO. DRAWING NO. TJ1008 SCALE As Shown SHEET NO. 23</div>	
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. Kim	<div><div><div><div><div></div></div></div><div><div><div></div></div></div></div><div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div>
DRAWN BY C. Swanson	
CHECKED BY R. Simon	
IN CHARGE M. Zdon	
DATE 3-3-2011	

HNTB

401 B Street
Suite 302
San Diego, CA 92101

CH2MHILL

CALIFORNIA HIGH-SPEED TRAIN PROJECT

LOS ANGELES TO SAN DIEGO SECTION

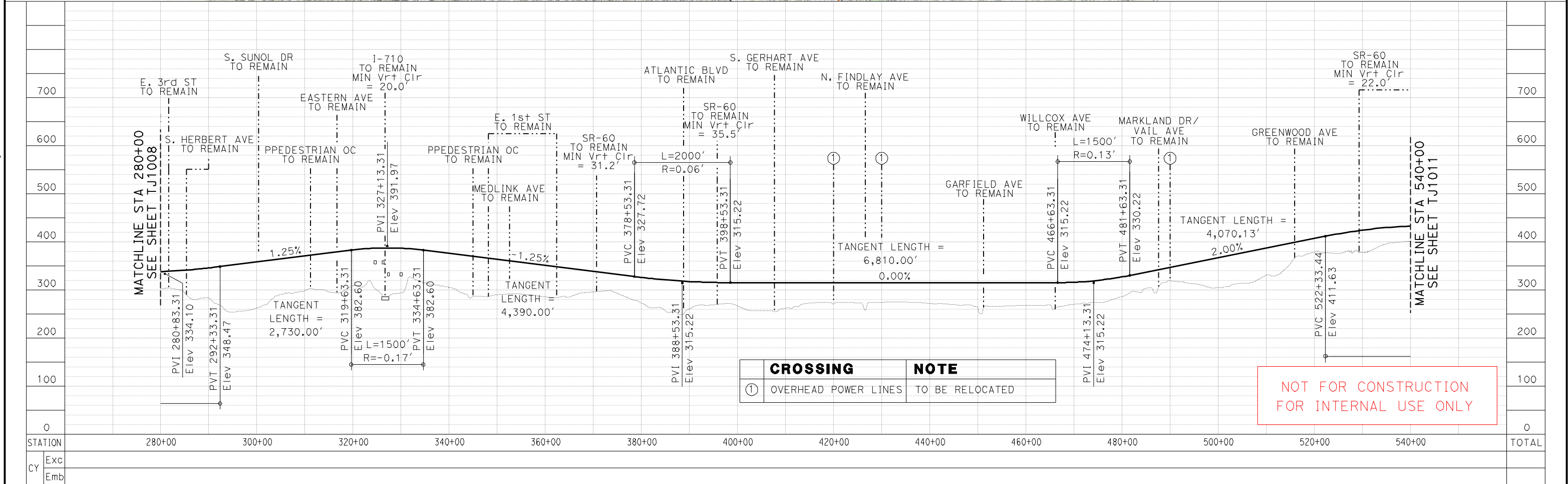
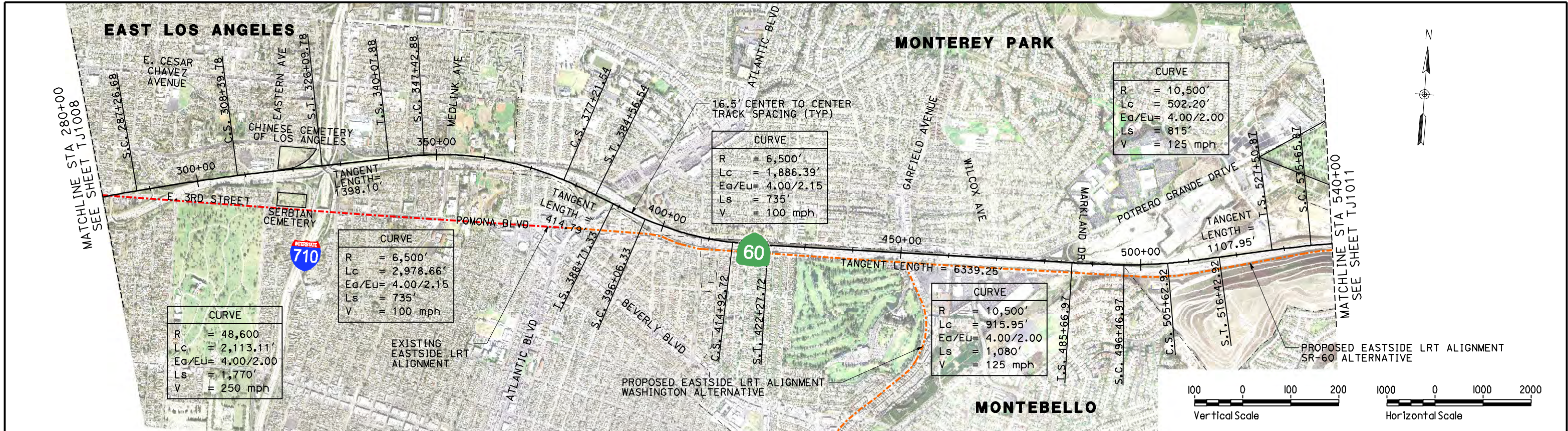
Subsection 1-LAUS to Ontario Int'l Airport

S1-A2.2: SR-60 via First Street Below Grade

Plan and Profile

CONTRACT NO.
DRAWING NO. TJ1008A
SCALE As Shown
SHEET NO. 24

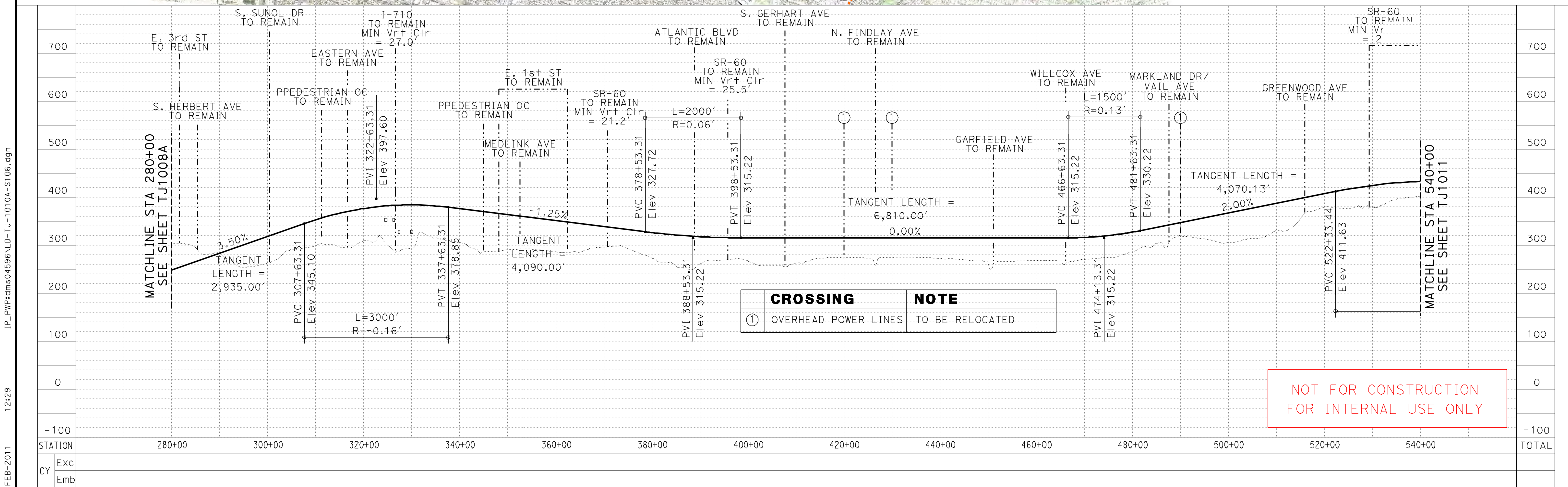
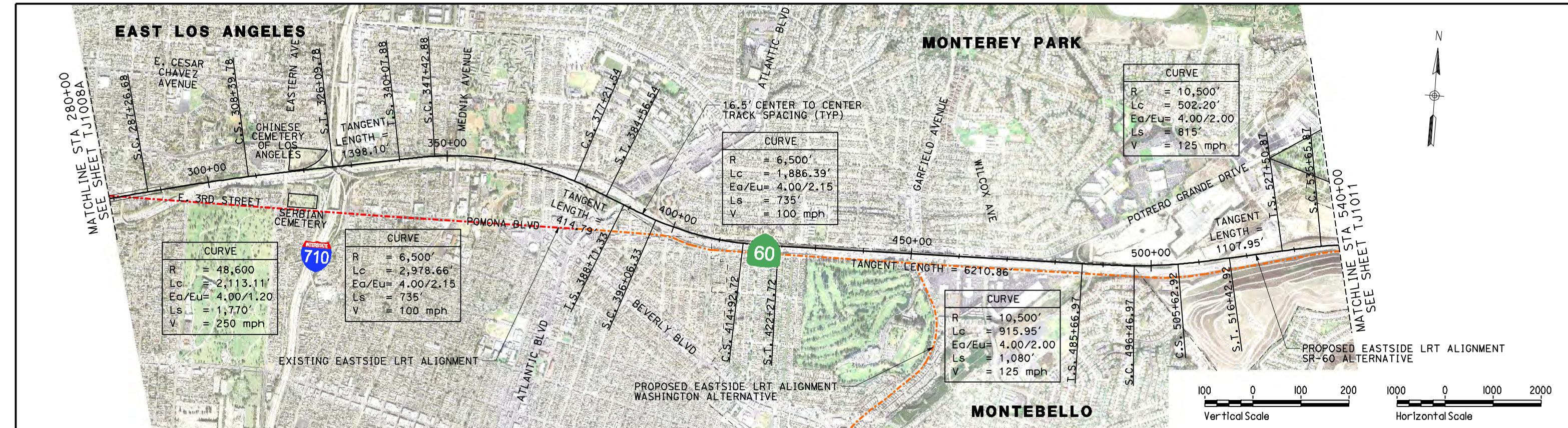
IP_PWP:dms04596\LD-TJ-1010-S106.dgn 12:28 15-FEB-2011 caswanson



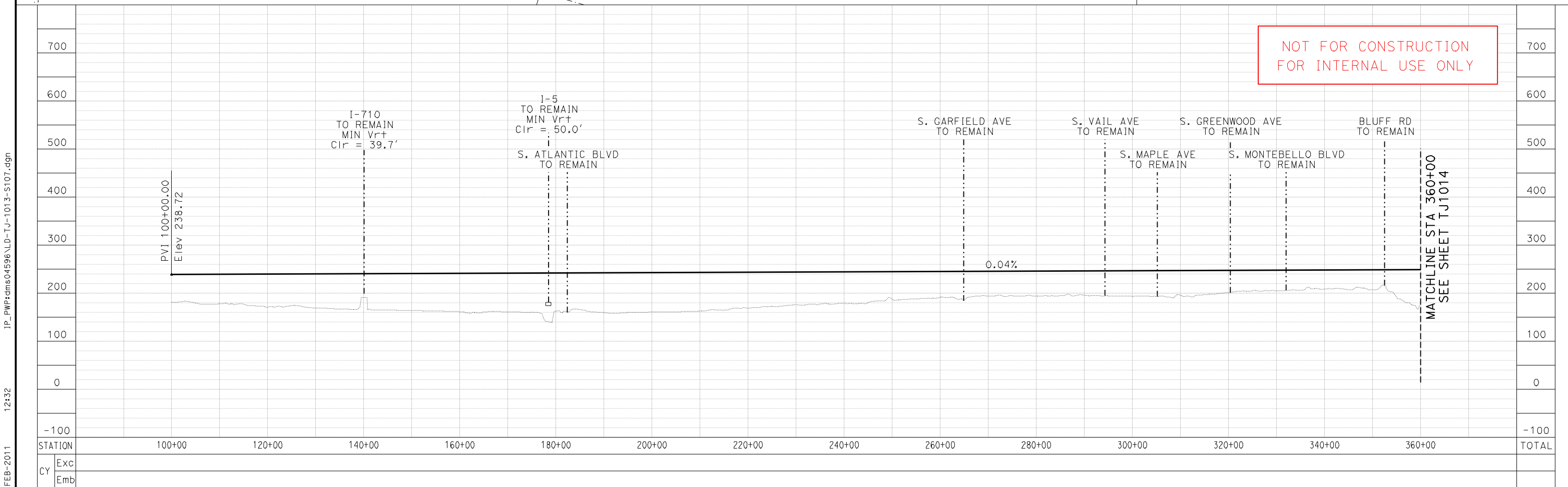
DESIGNED BY M. Kim						DRAWN BY C. Swanson						CHECKED BY R. Simon						IN CHARGE M. Zdon						DATE 3-3-2011					
REV						DATE						BY						CHK						APP					
DESCRIPTION																													

STATION		280+00	300+00	320+00	340+00	360+00	380+00	400+00	420+00	440+00	460+00	480+00	500+00	520+00	540+00	TOTAL
CY	Exc															
	Emb															

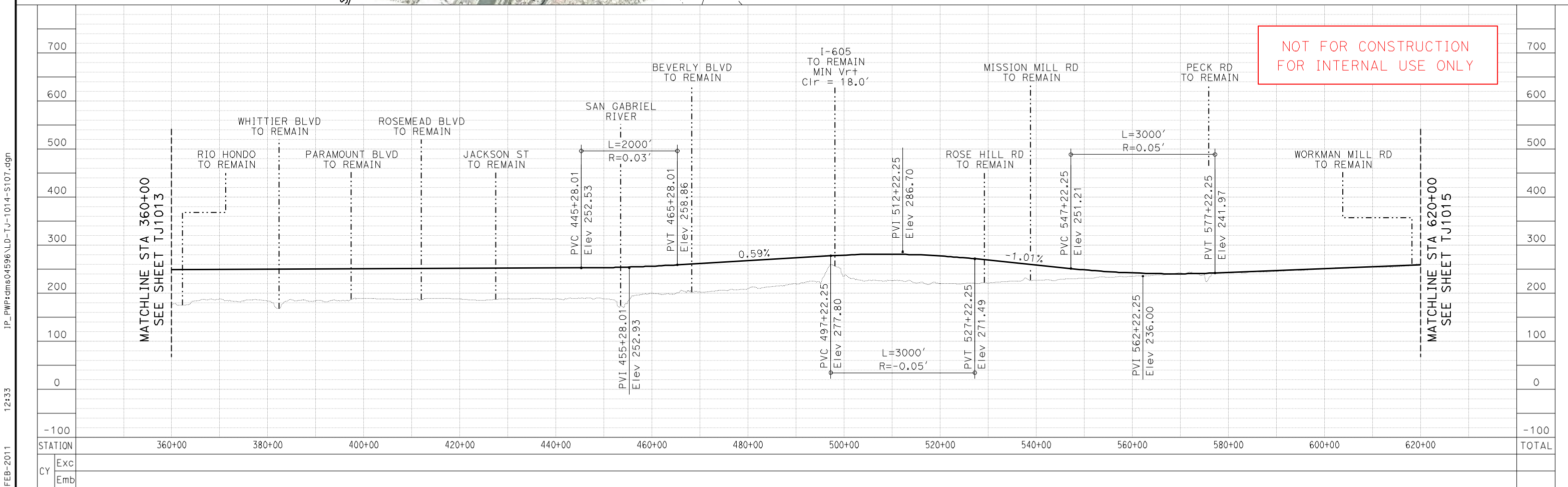
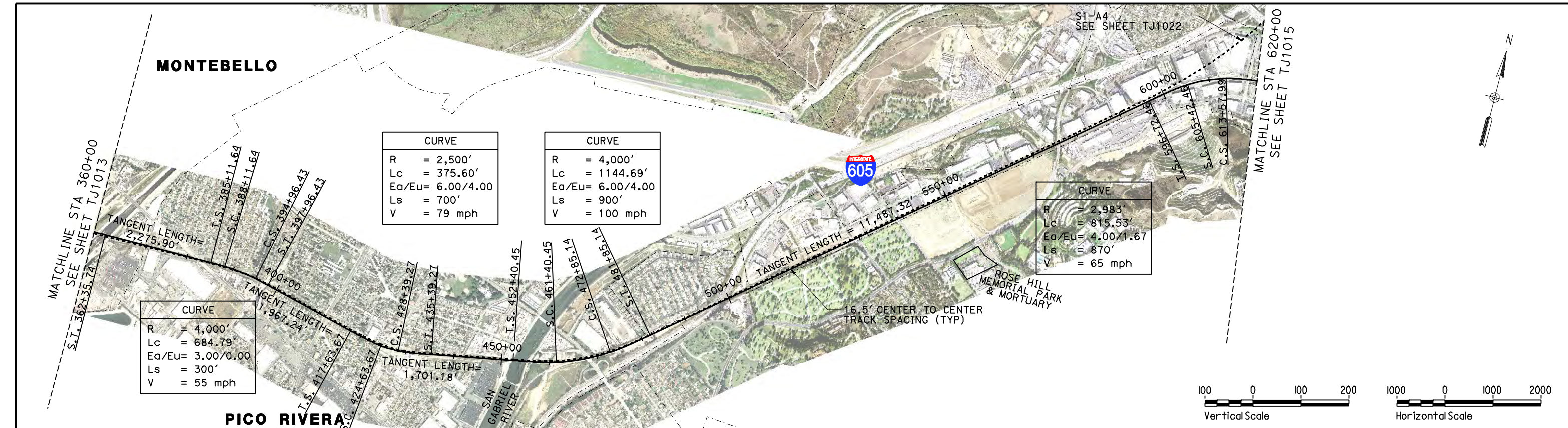
HNTB		401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED RAIL AUTHORITY		CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION		Subsection 1-LAUS to Ontario Int'l Airport S1-A2.1: SR-60 via First Street Above Grade Plan and Profile		CONTRACT NO.		DRAWING NO. TJ1010		SCALE As Shown		SHEET NO. 26	
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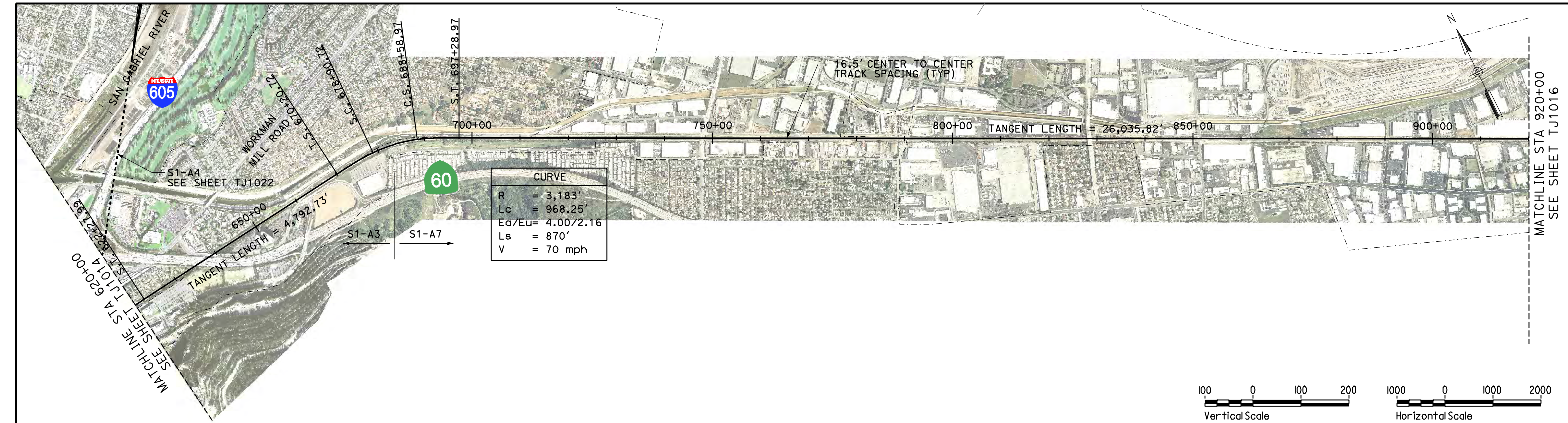
DESIGNED BY M. Kim					 401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION		CONTRACT NO.
DRAWN BY C. Swanson							DRAWING NO. TJ1010A		
CHECKED BY R. Simon							SCALE As Shown		
IN CHARGE M. Zdon							SHEET NO. 27		
REV	DATE	BY	CHK	APP	DESCRIPTION	Subsection 1-LAUS to Ontario Int'l Airport S1-A2.2: SR-60 via First Street Below Grade Plan and Profile			



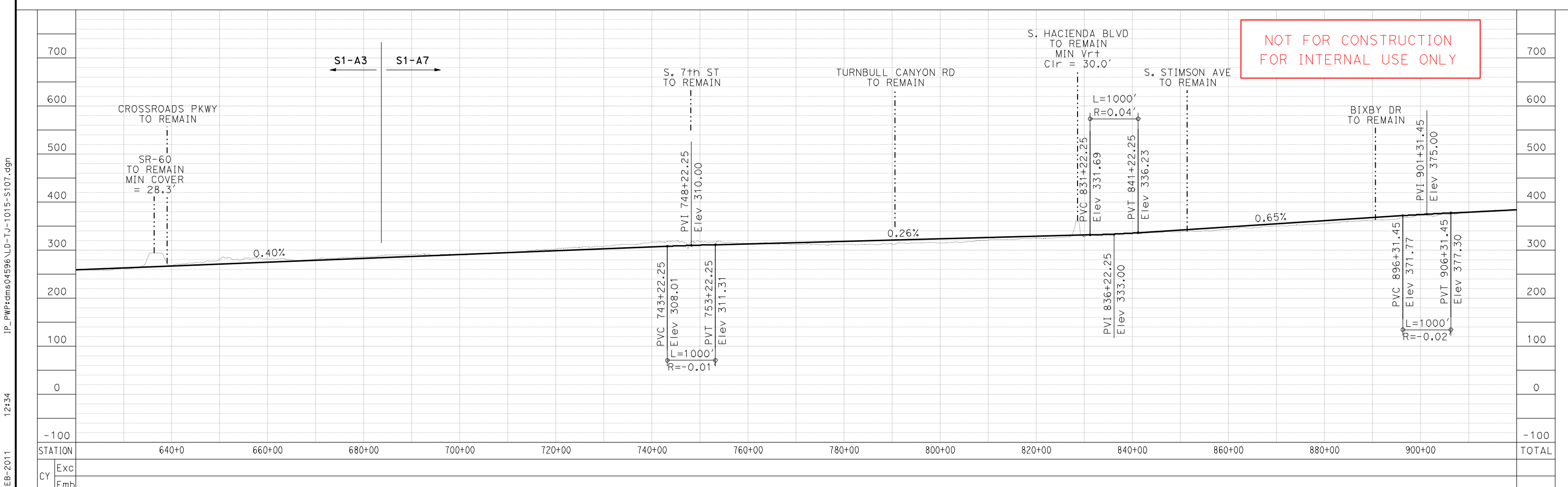
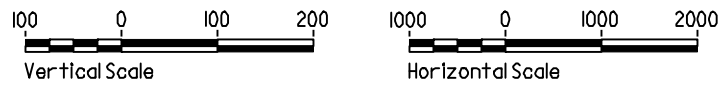
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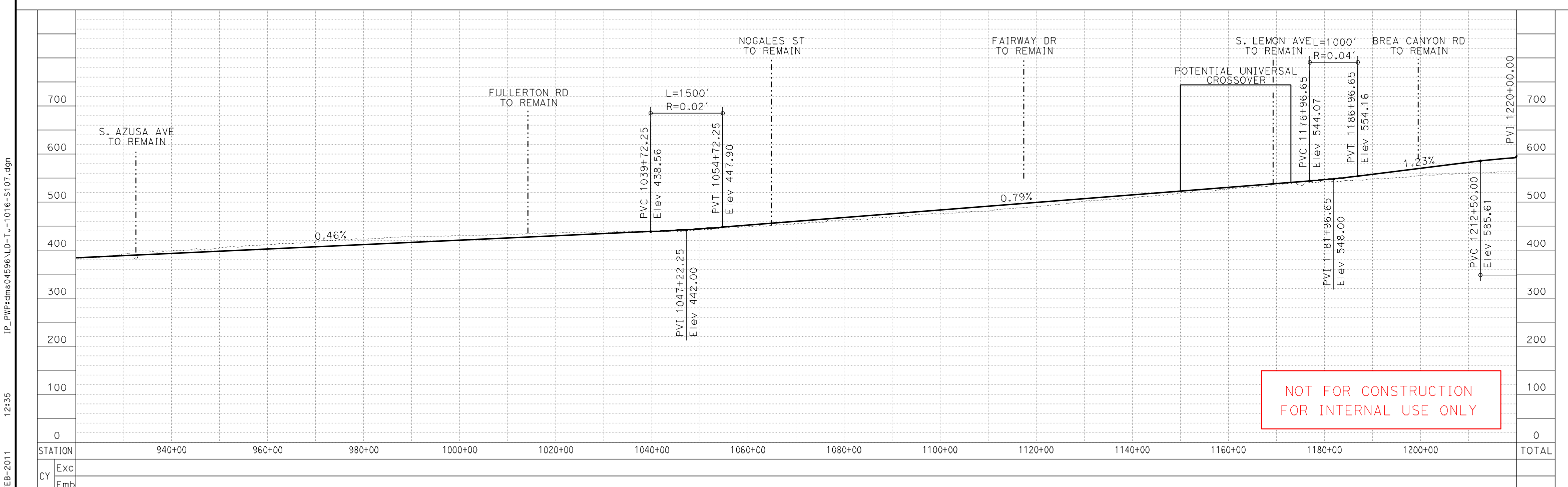
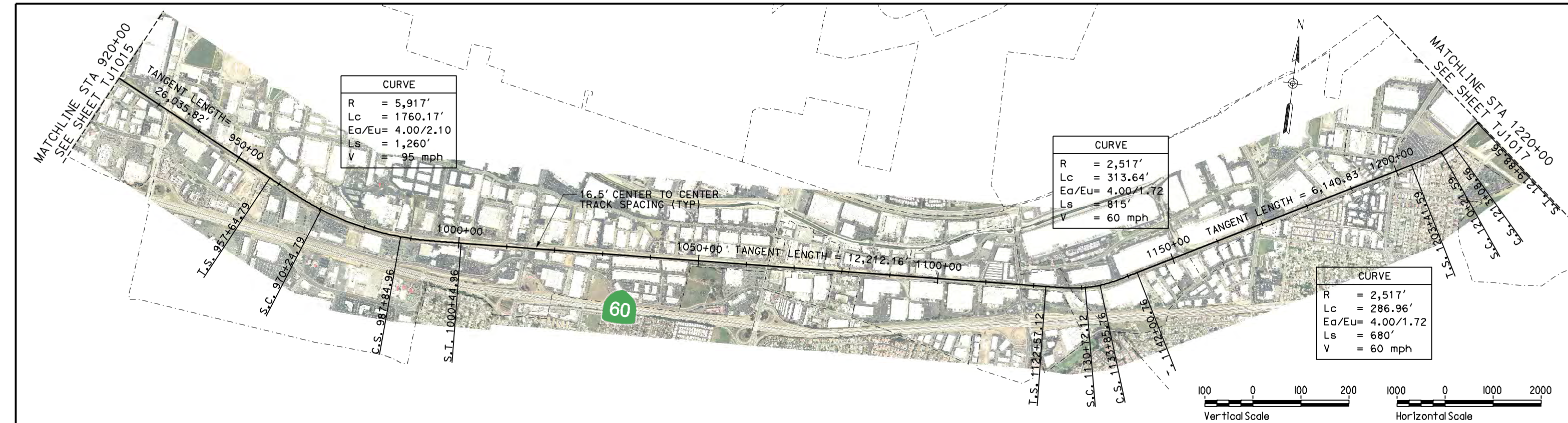
<div>DESIGNED BY M. Kim DRAWN BY C. Swanson CHECKED BY R. Simon IN CHARGE M. Zdon DATE 3-3-2011</div>					<div>HNTB 401 B Street Suite 302 San Diego, CA 92101</div> <div>CH2MHILL</div>		<div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>		<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION</div> <div>Subsection 1-LAUS to Ontario Int'l Airport S1-A3: LAUS to East of I-605 via UPRR Plan and Profile</div>		<div>CONTRACT NO. DRAWING NO. TJ1014 SCALE As Shown SHEET NO. 31</div>	
REV	DATE	BY	CHK	APP	DESCRIPTION							



CURVE	
R	= 3,183'
Lc	= 968.25'
Ea/Eu	= 4.00/2.16
Ls	= 870'
V	= 70 mph



<div>15-FEB-2011 12:34 IP_PWP:dms04596\LD-TJ-1015-S101.dgn</div>					<div>DESIGNED BY M. Kim DRAWN BY C. Swanson CHECKED BY R. Simon IN CHARGE M. Zdon DATE 3-3-2011</div>		<div>HNTB 401 B Street Suite 302 San Diego, CA 92101</div> <div>CH2MHILL</div>		<div> CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>		<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION</div> <div>Subsection 1-LAUS to Ontario Int'l Airport S1-A7: UPRR East of I-605 to Ontario Airport Plan and Profile</div>		<div>CONTRACT NO. DRAWING NO. TJ1015 SCALE As Shown SHEET NO. 32</div>	
REV	DATE	BY	CHK	APP	DESCRIPTION									

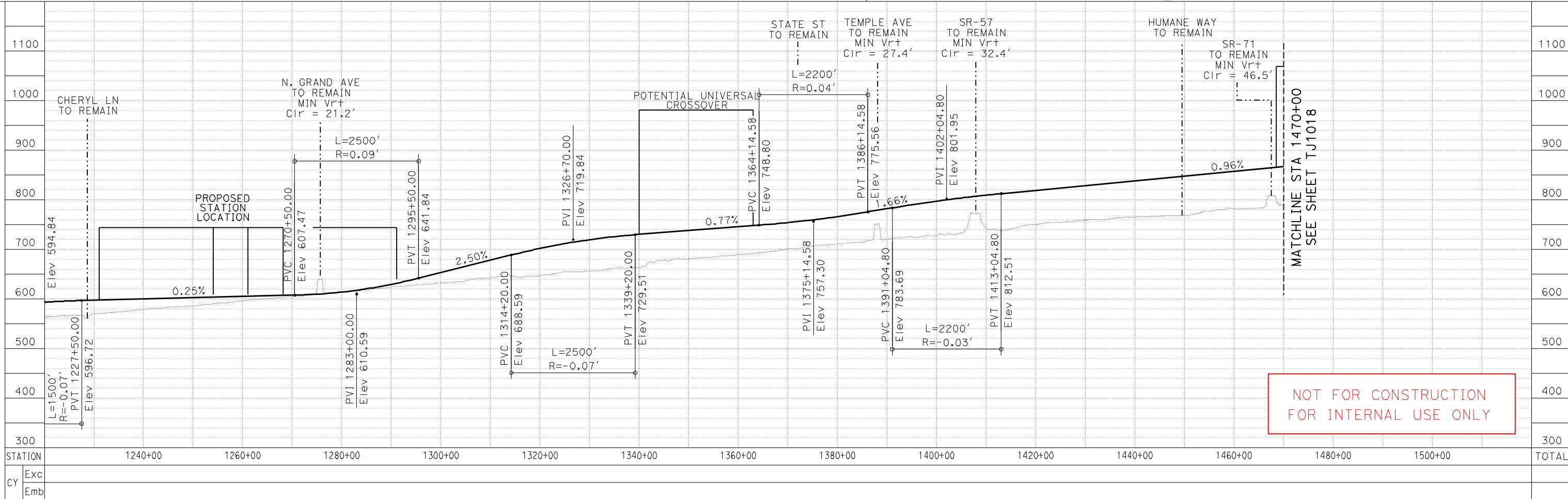
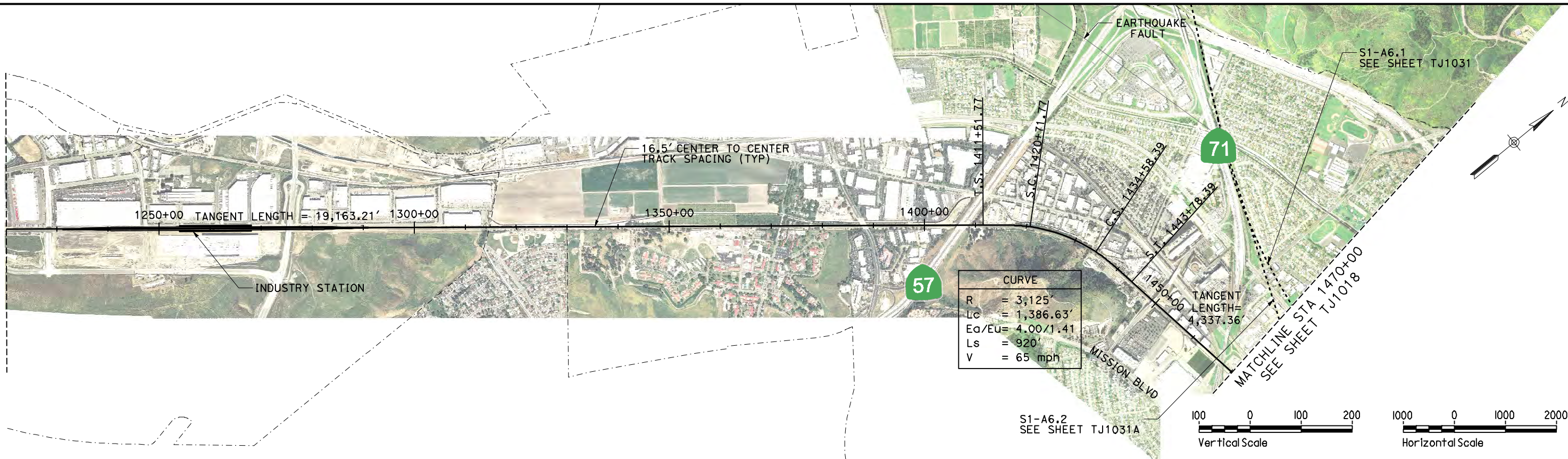


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DESIGNED BY	M. Kim																																											
DRAWN BY	C. Swanson																																											
CHECKED BY	R. Simon																																											
IN CHARGE	M. Zdon																																											
DATE	3-3-2011																																											
<table border="1"><thead><tr><th>REV</th><th>DATE</th><th>BY</th><th>CHK</th><th>APP</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>					REV	DATE	BY	CHK	APP	DESCRIPTION																																		
REV	DATE	BY	CHK	APP	DESCRIPTION																																							

15-FEB-2011 12:36 IP_PWP:dms04596\LD-TJ-1017-S107.dgn

COSWANSON

MATCHLINE STA 1220+00
SEE SHEET TJ1016



REV	DATE	BY	CHK	APP	DESCRIPTION

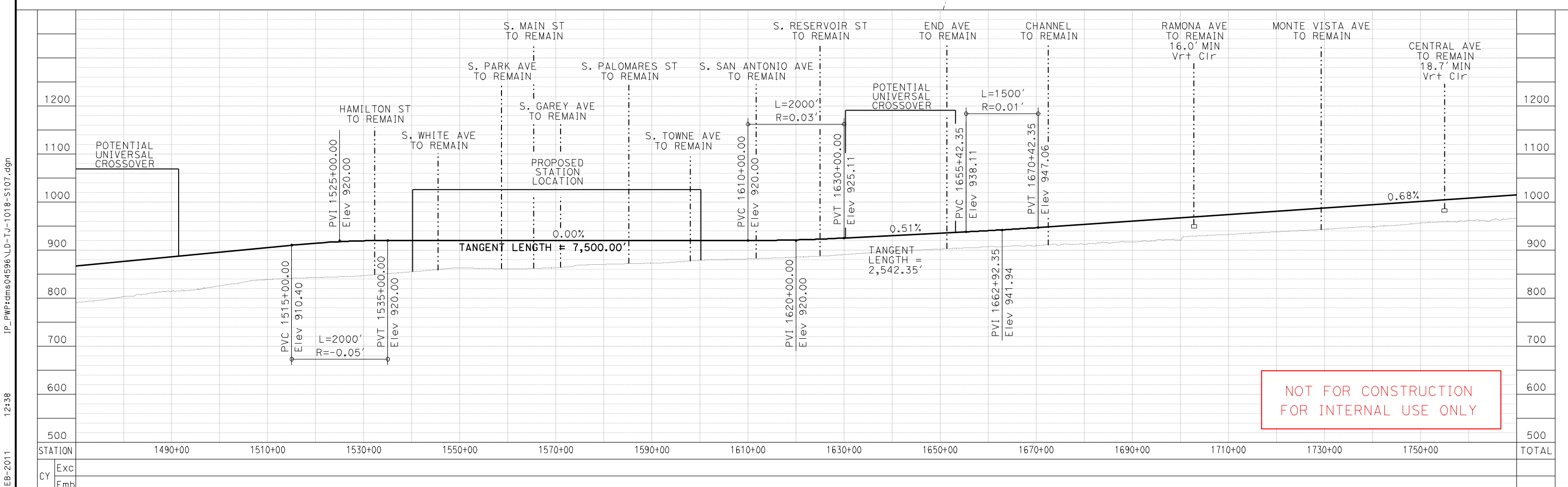
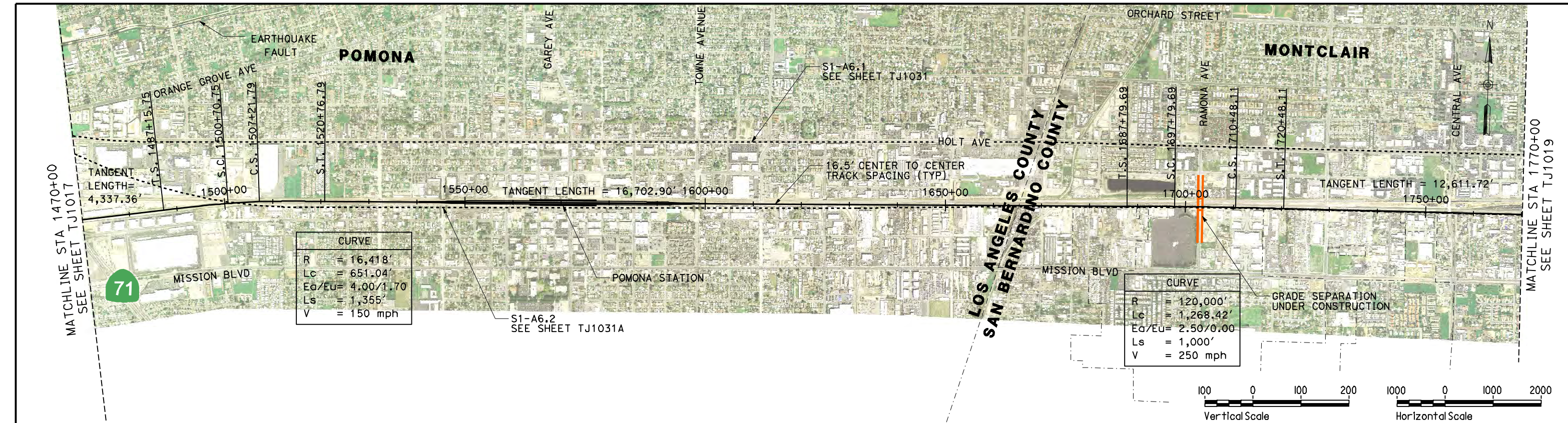
DESIGNED BY M. Kim
DRAWN BY C. Swanson
CHECKED BY R. Simon
IN CHARGE M. Zdon
DATE 3-3-2011



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 1-LAUS to Ontario Int'l Airport
S1-A7: UPRR East of I-605 to Ontario Airport
Plan and Profile

CONTRACT NO.
DRAWING NO. TJ1017
SCALE As Shown
SHEET NO. 34



<div>IP_PWP:dms04596\LD-TJ-1018-S107.dgn</div> <div>12:38</div> <div>15-FEB-2011</div> <div>caswanson</div>					<div>DESIGNED BY M. Kim</div> <div>DRAWN BY C. Swanson</div> <div>CHECKED BY R. Simon</div> <div>IN CHARGE M. Zdon</div> <div>DATE 3-3-2011</div>		<div>HNTB 401 B Street Suite 302 San Diego, CA 92101</div> <div>CH2MHILL</div>		<div> CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div> <div>CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION</div> <div>Subsection 1-LAUS to Ontario Int'l Airport S1-A7: UPRR East of I-605 to Ontario Airport Plan and Profile</div>		<div>CONTRACT NO.</div> <div>DRAWING NO. TJ1018</div> <div>SCALE As Shown</div> <div>SHEET NO. 35</div>	
REV	DATE	BY	CHK	APP	DESCRIPTION							

IP_PWP:dms04596\LD-TJ-1019-S107.dgn 12:39 15-FEB-2011 caswanson

MATCHLINE STA 1770+00
SEE SHEET TJ1018

S1-A6.1
SEE SHEET TJ1031

S1-A6.2
SEE SHEET TJ1031A

1800+00 TANGENT LENGTH = 12,611.72' 1850+00

16.5' CENTER TO CENTER
TRACK SPACING (TYP)

T.S. 1846+59.83

S.C. 1861+59.83

C.S. 1881+21.83

Mission
BLVD

S.S. 1896+21.83

TANGENT
LENGTH=
1,001.43'

S1-A5
SEE SHEET TJ1024

GROVE AVE

T.S. 1906+23.26

S.C. 1921+23.26

C.S. 1931+98.94

S.T. 1946+98.94

PROPOSED VINEYARD AVE
GRADE SEPARATION

1950+00 TANGENT LENGTH = 4,719.67'

Pacific Gateway
Cargo Complex

Parking

VINEYARD AVE
P.O.E. 1994+18.61

S1-A7 STA 1994+18.61 =
S1-A5 STA 1361+67.09 =
S1-A6.1 STA 1253+94.68 =
S1-A6.2 STA 676+44.81 =
S2-A1 STA 100+00.00 =
S2-A2 STA 400+00.00 =
S2-A3 STA 100+00.00 =
S2-A4 STA 100+00.00 =

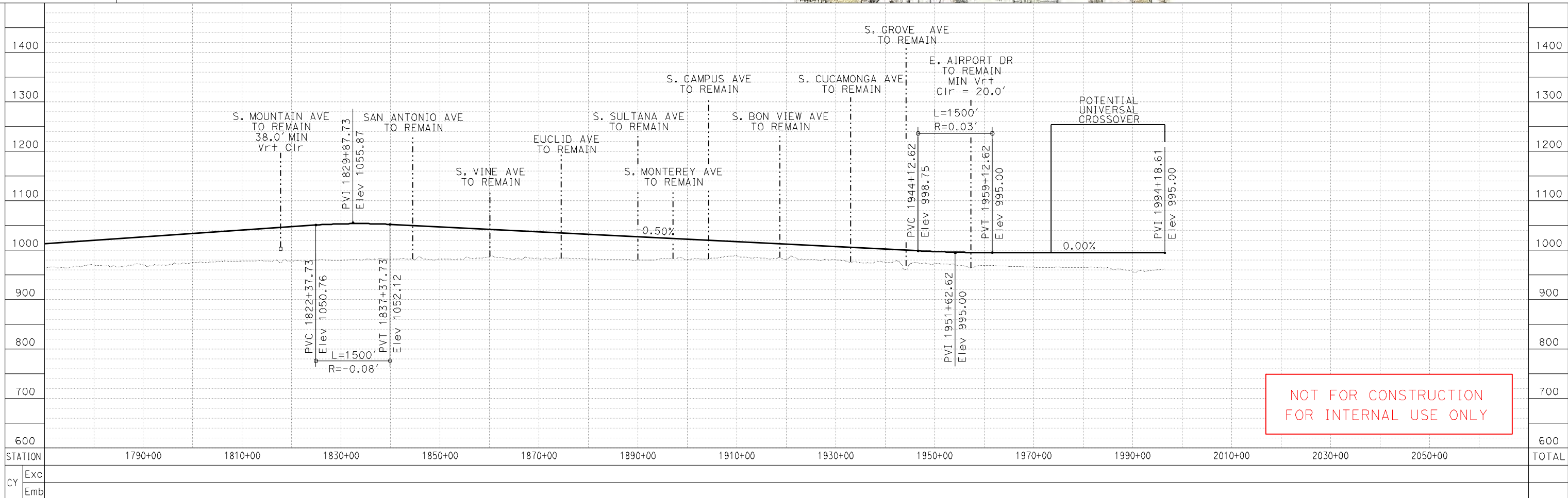
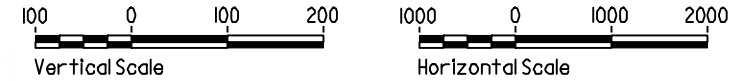
PROPOSED I-10
WIDENING

E. AIRPORT DR.

TERMINAL 1 TERMINAL 2 TERMINAL 3 TERMINAL 4

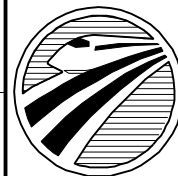
Relocated Runway 8L-26R

ONTARIO INTERNATIONAL AIRPORT
(PLANNED FACILITIES SHOWN)



DESIGNED BY
M. Kim
DRAWN BY
C. Swanson
CHECKED BY
R. Simon
IN CHARGE
M. Zdon
DATE
3-3-2011

HNTB 401 B Street
Suite 302
San Diego, CA 92101
CH2MHILL



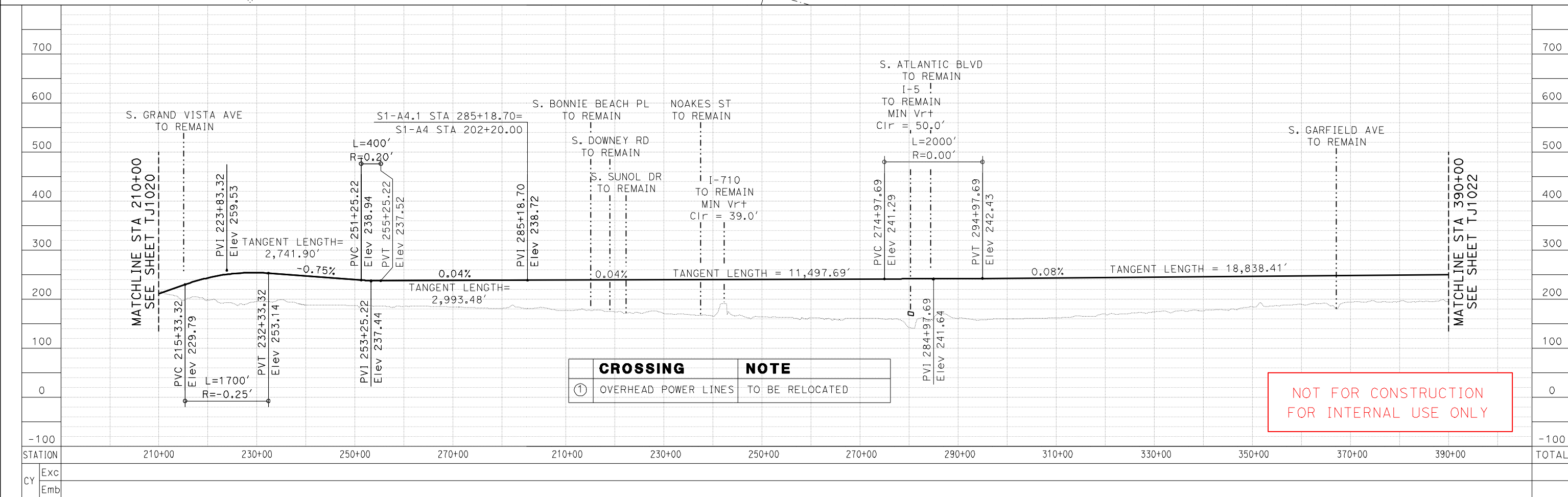
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 1-LAUS to Ontario Int'l Airport
S1-A7: UPRR East of I-605 to Ontario Airport
Plan and Profile

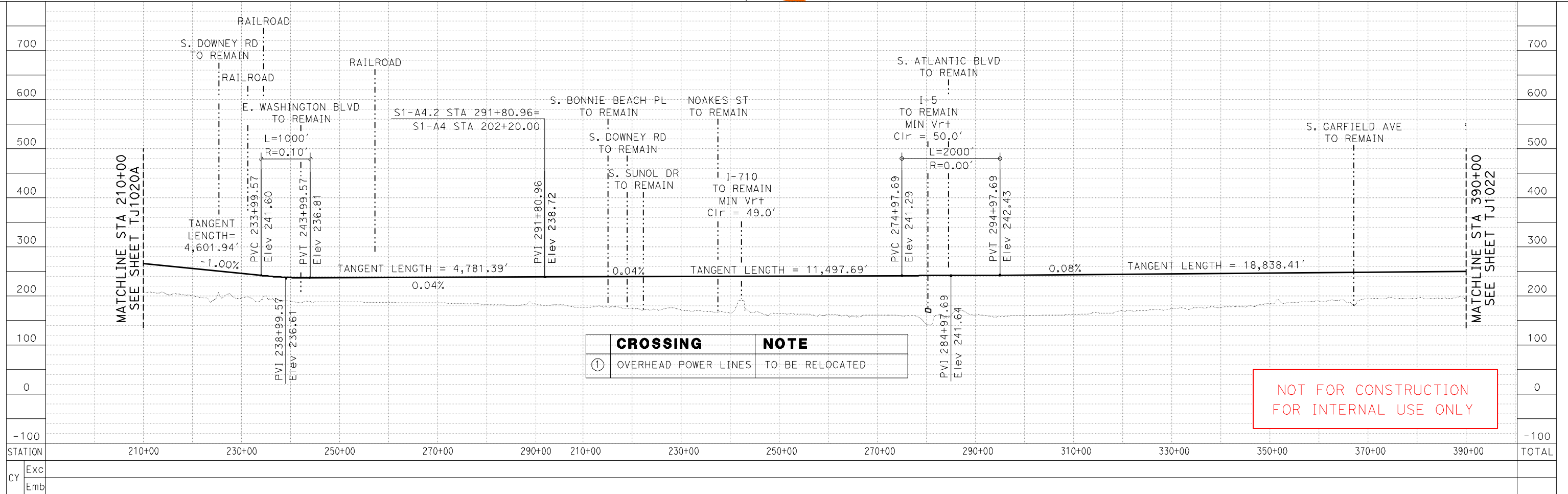
CONTRACT NO.
DRAWING NO.
TJ1019
SCALE
As Shown
SHEET NO.
36

IP_PWP:dms04596\LD-TJ-1021-S108.dgn 12:42 15-FEB-2011 caswanson



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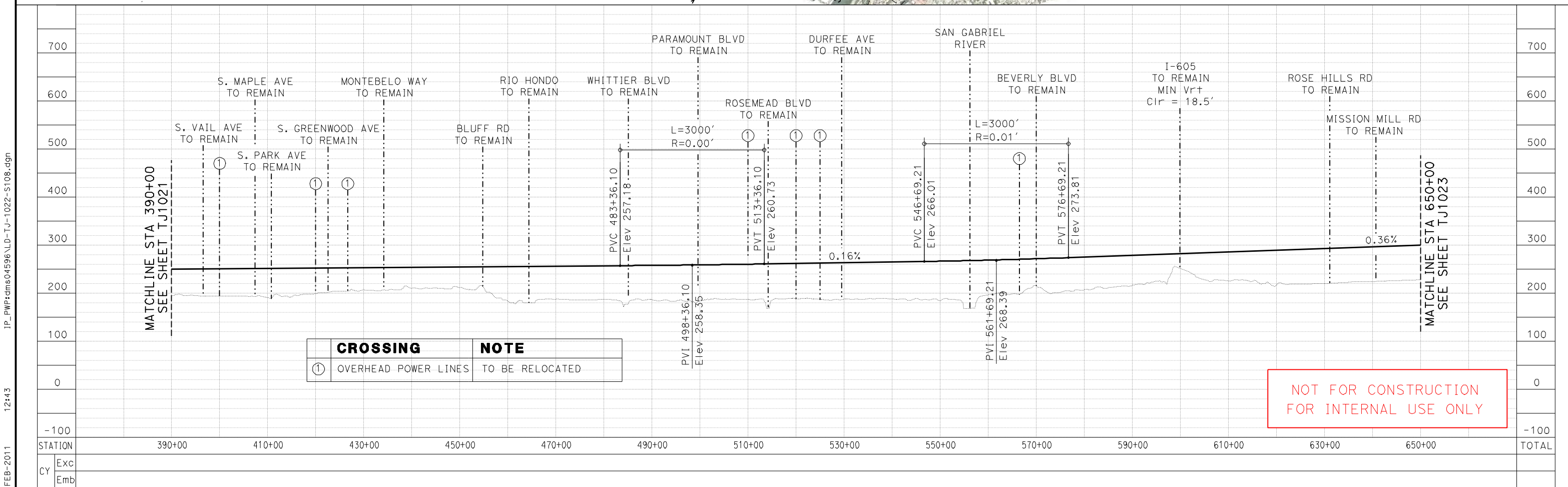
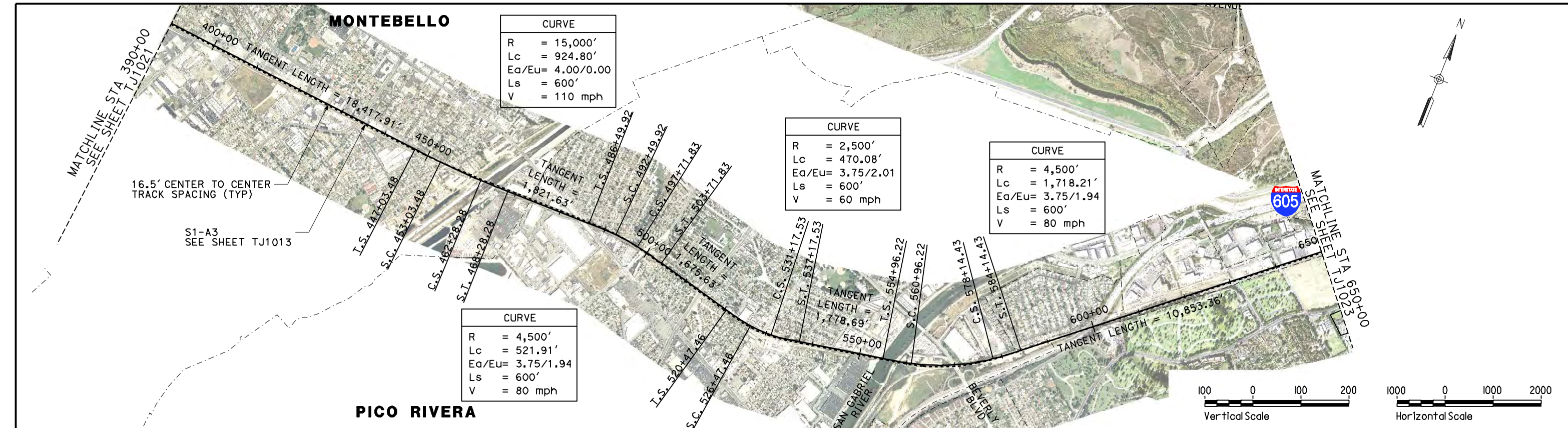
IP_PWP:dms04596\LD-TJ-1021A-S108.dgn 12:43 15-FEB-2011 caswanson



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. Kim	HNTB 401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED RAIL AUTHORITY
DRAWN BY C. Swanson			
CHECKED BY R. Simon			
IN CHARGE M. Zdon			
DATE 3-3-2011			

CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION		CONTRACT NO.
Subsection 1-LAUS to Ontario Int'l Airport S1-A3.2/A4.2: LAUS to UPRR via Redondo Jct Plan and Profile		DRAWING NO. TJ1021A
SCALE As Shown		SHEET NO. 40



15-FEB-2011

12:43

IP_PWP:dms04596\LD-TJ-1022-S108.dgn

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. Kim
DRAWN BY
C. Swanson
CHECKED BY
R. Simon
IN CHARGE
M. Zdon
DATE
3-3-2011

HNTB

401 B Street
Suite 302
San Diego, CA 92101

CH2MHILL

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION

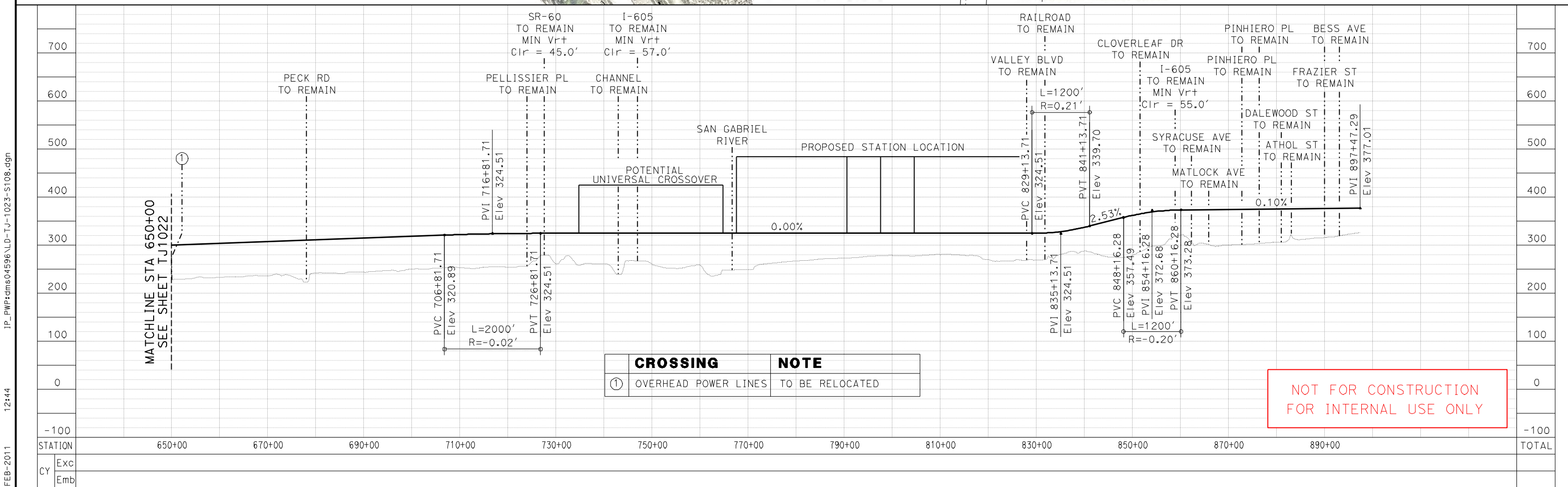
Subsection 1-LAUS to Ontario Int'l Airport
S1-A4: UPRR Adjacent Redondo Jct to I-10
Plan and Profile

CONTRACT NO.

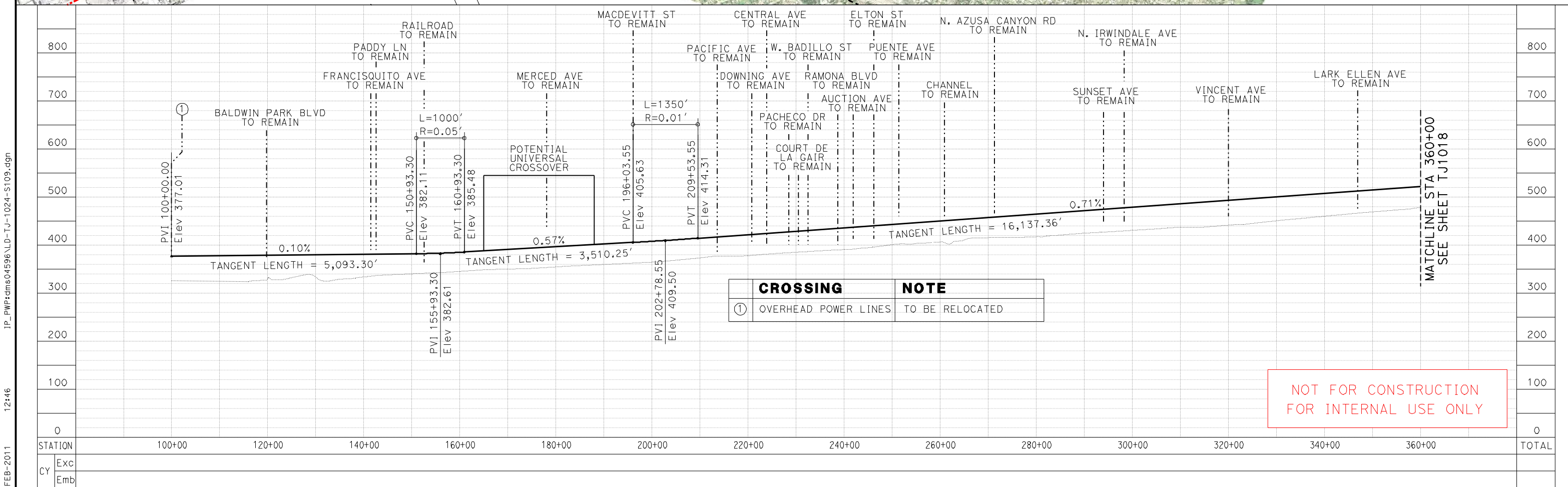
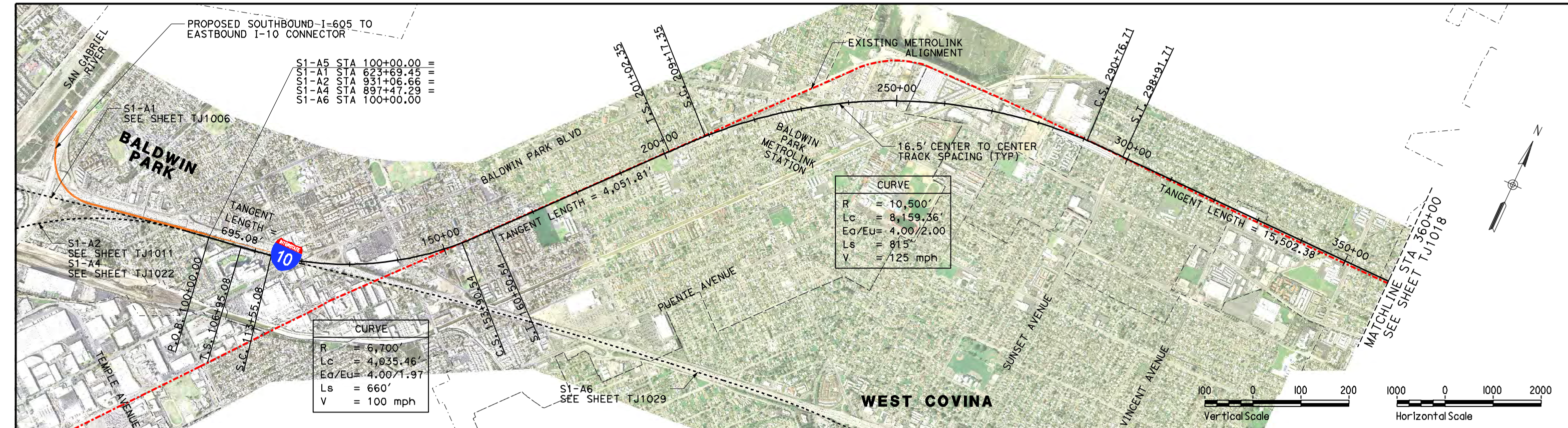
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SCALE
As Shown

SHEET NO.
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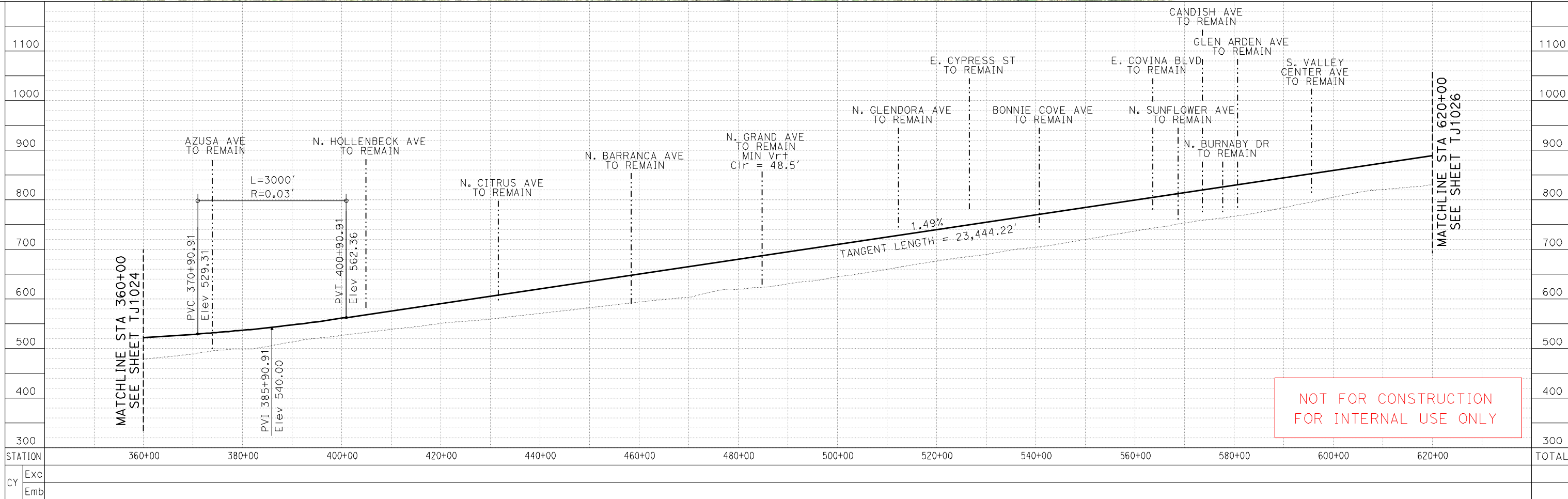
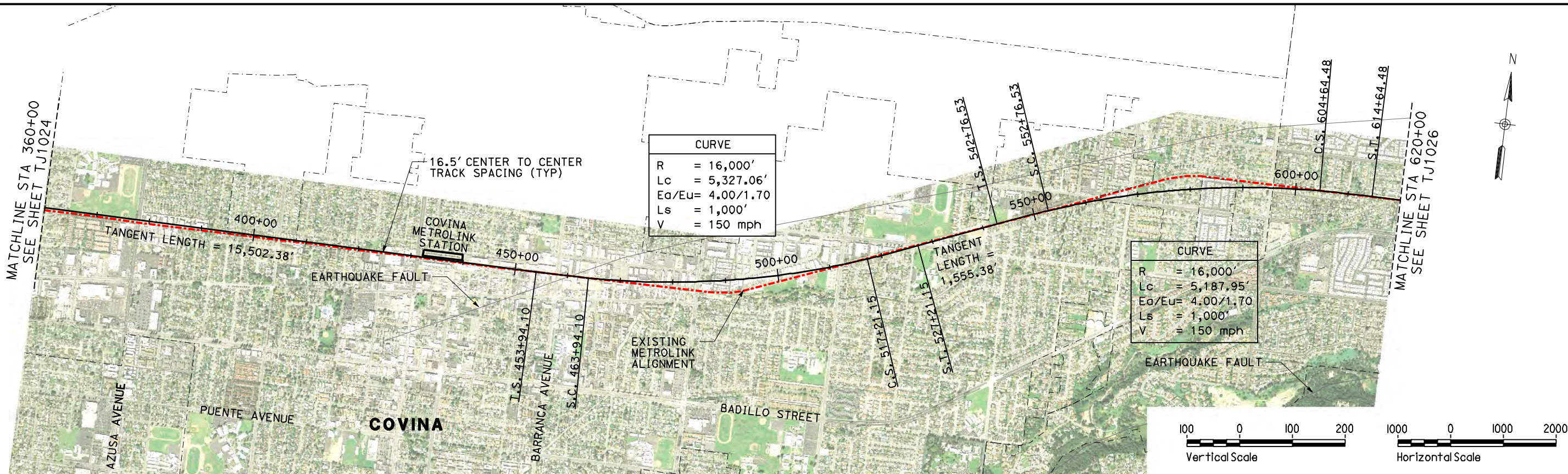


<div>DESIGNED BY M. Kim DRAWN BY C. Swanson CHECKED BY R. Simon IN CHARGE M. Zdon DATE 3-3-2011</div>					<div>HNTB 401 B Street Suite 302 San Diego, CA 92101</div> <div>CH2MHILL</div>		<div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div>		<div>CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION</div> <div>Subsection 1-LAUS to Ontario Int'l Airport S1-A4: UPRR Adjacent Redondo Jct to I-10 Plan and Profile</div>		<div>CONTRACT NO. DRAWING NO. TJ1023 SCALE As Shown SHEET NO. 42</div>	
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DESIGNED BY M. Kim					HNTB 401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION	CONTRACT NO.
DRAWN BY C. Swanson								DRAWING NO. TJ1024
CHECKED BY R. Simon								SCALE As Shown
IN CHARGE M. Zdon								SHEET NO. 43
DATE 3-3-2011					CH2MHILL		Subsection 1-LAUS to Ontario Int'l Airport S1-A5: I-605 to Ontario Airport via Metrolink Plan and Profile	
REV	DATE	BY	CHK	APP	DESCRIPTION			

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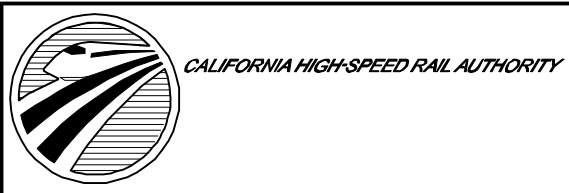
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. Kim
DRAWN BY C. Swanson
CHECKED BY R. Simon
IN CHARGE M. Zdon
DATE 3-3-2011



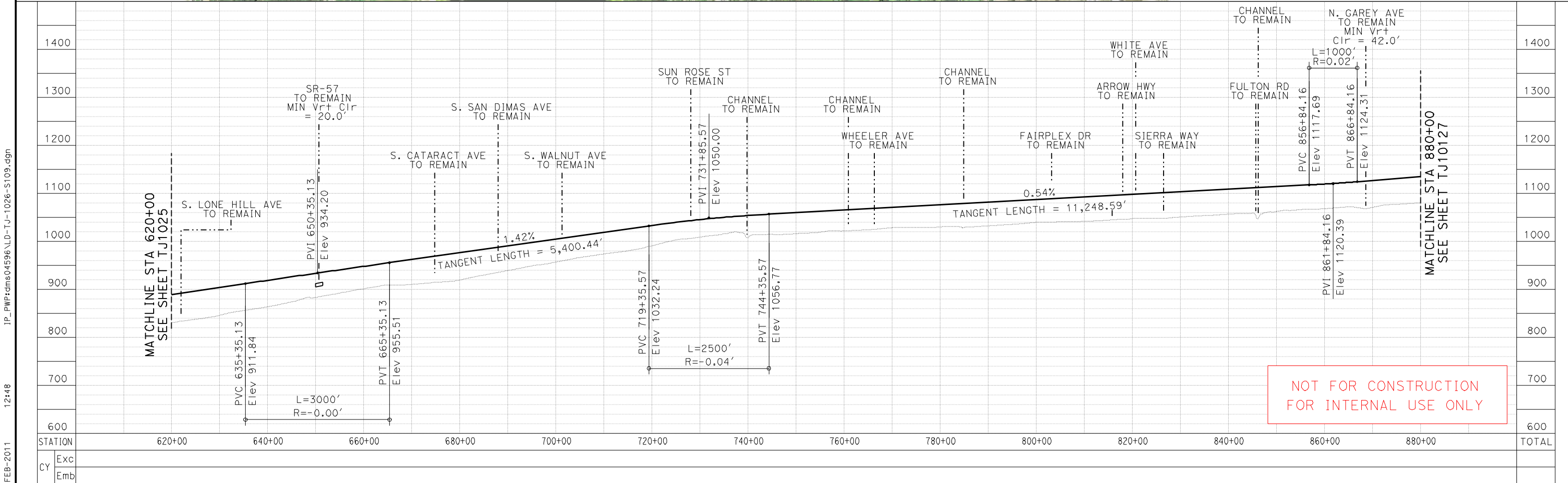
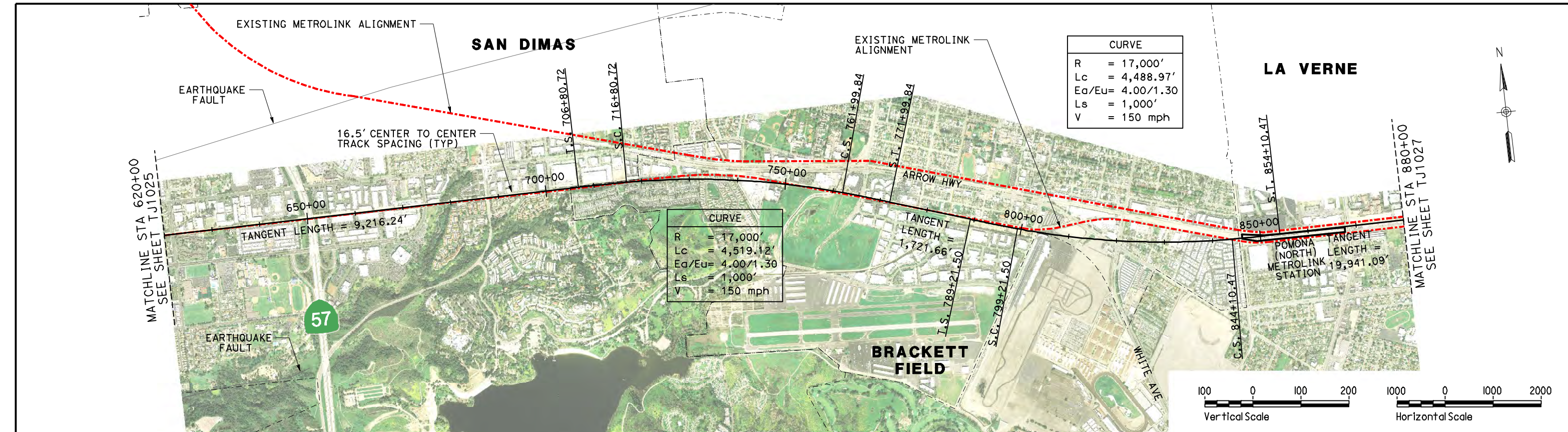
401 B Street
Suite 302
San Diego, CA 92101



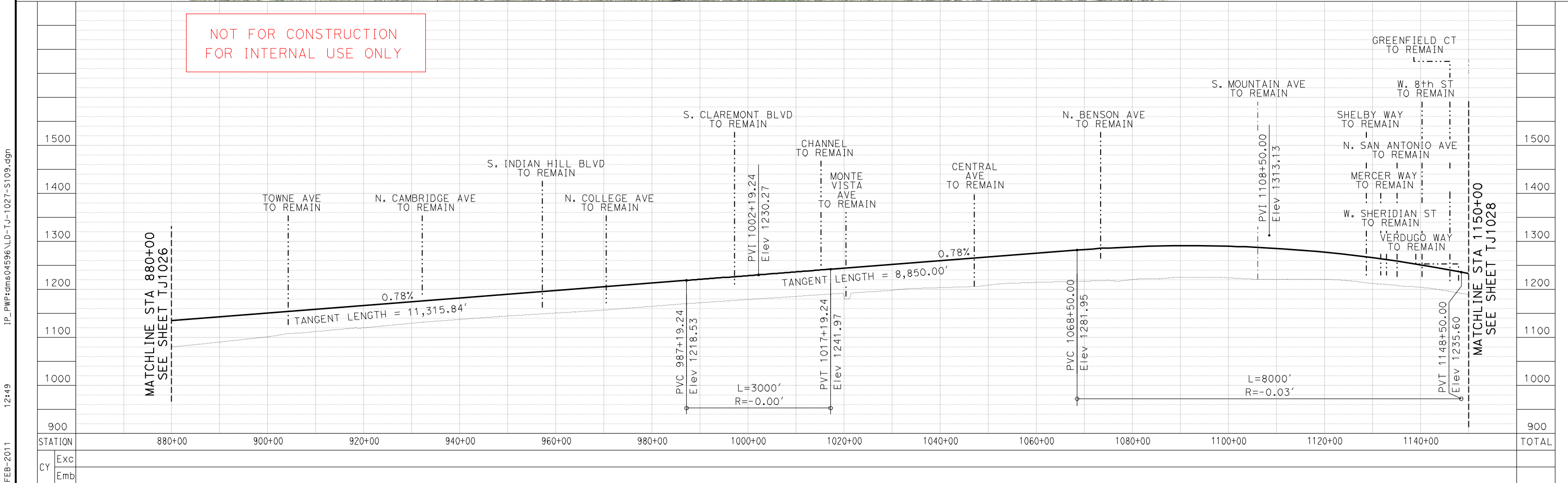
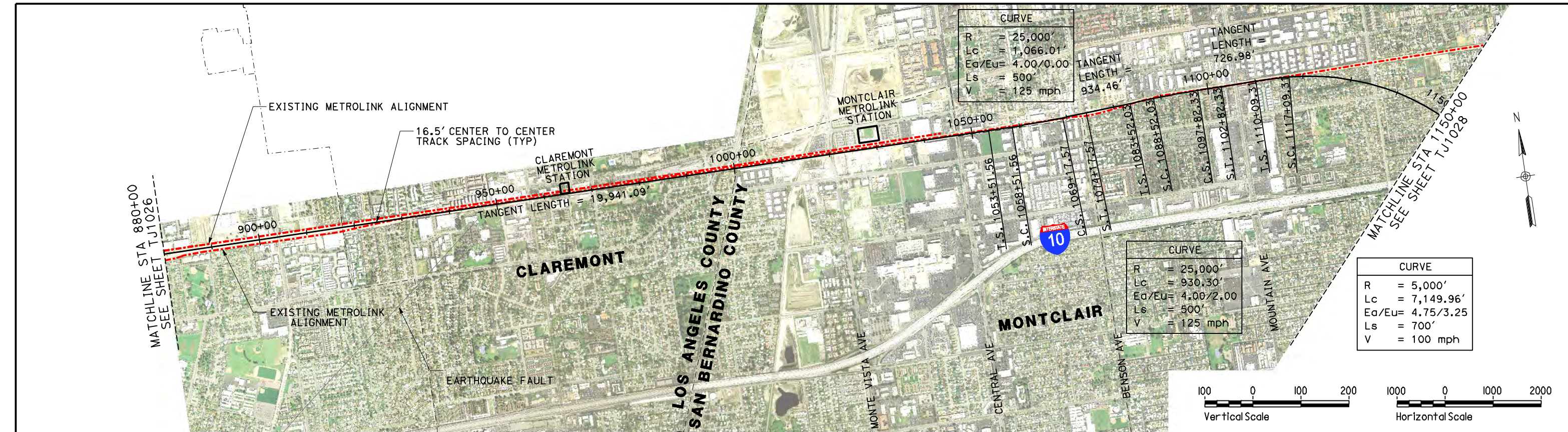
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 1-LAUS to Ontario Int'l Airport
S1-A5: I-605 to Ontario Airport via Metrolink
Plan and Profile

CONTRACT NO.
DRAWING NO. TJ1025
SCALE As Shown
SHEET NO. 44



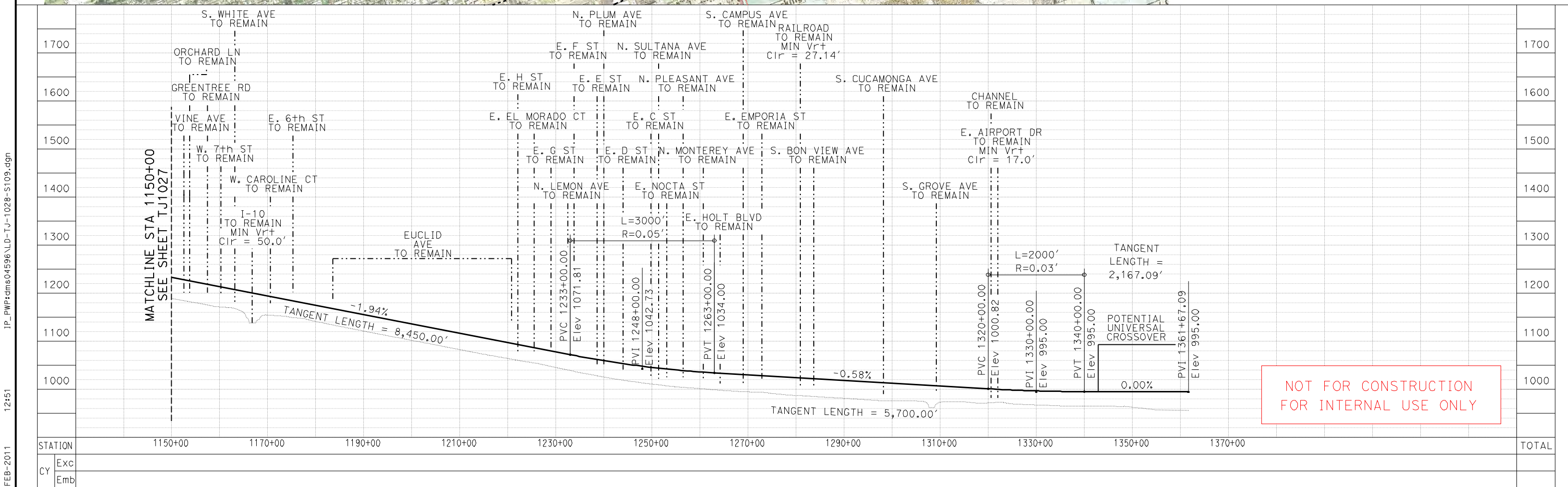
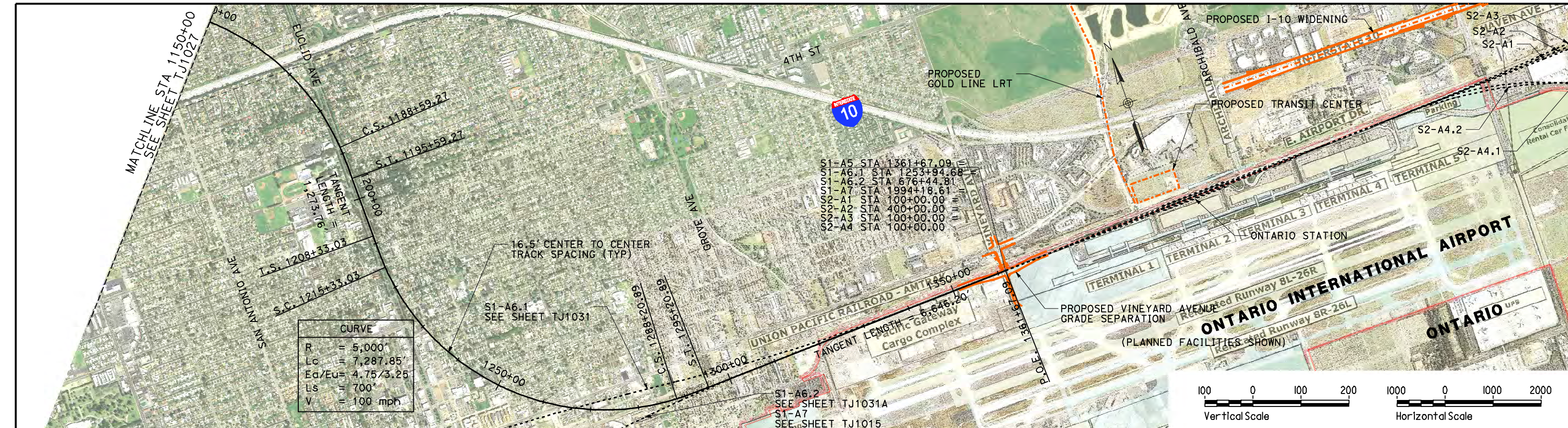
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REV	DATE	BY	CHK	APP	DESCRIPTION									



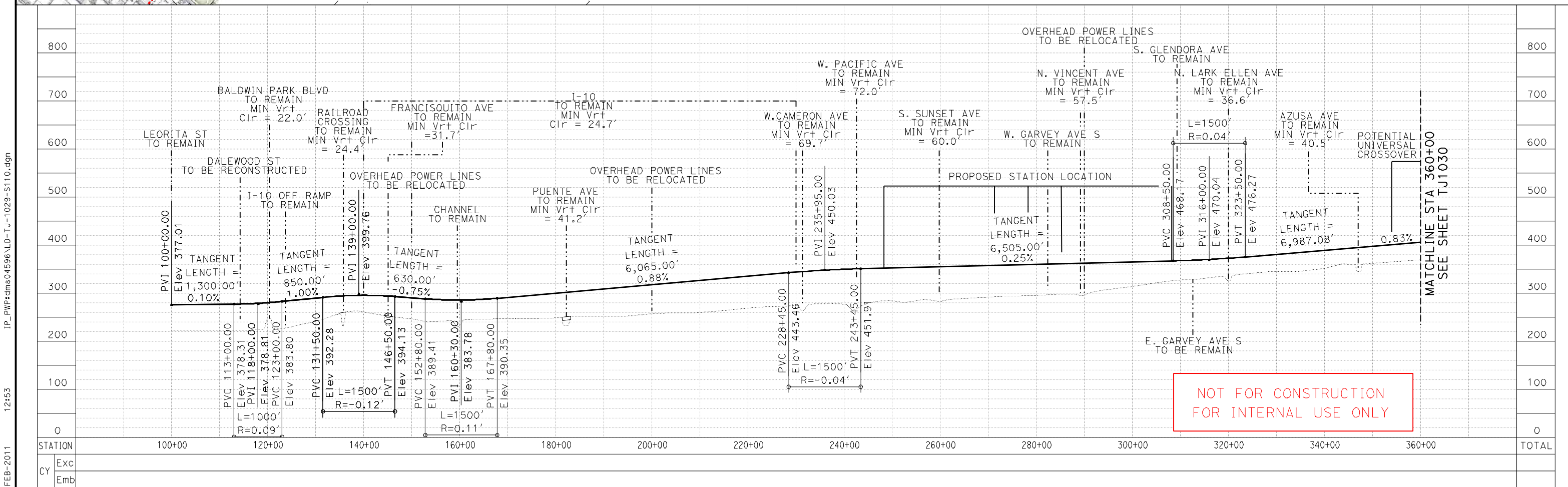
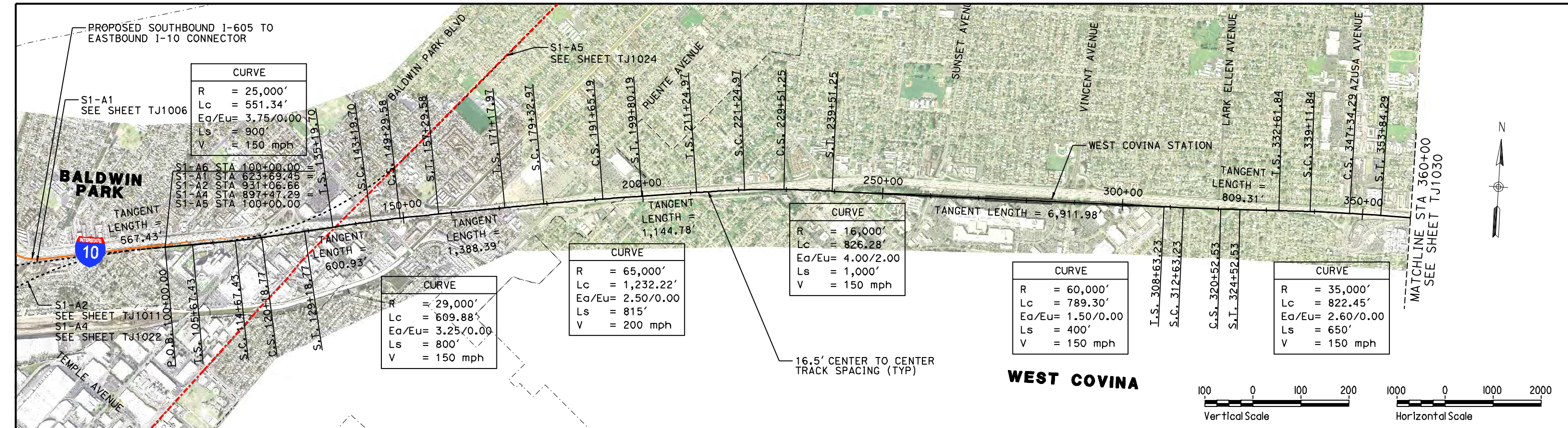
REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. Kim	HNTB 401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED RAIL AUTHORITY
DRAWN BY C. Swanson			
CHECKED BY R. Simon			
IN CHARGE M. Zdon			
DATE 3-3-2011			

CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION		CONTRACT NO.
Subsection 1-LAUS to Ontario Int'l Airport S1-A5: I-605 to Ontario Airport via Metrolink Plan and Profile		DRAWING NO. TJ1027
SCALE As Shown		SHEET NO. 46



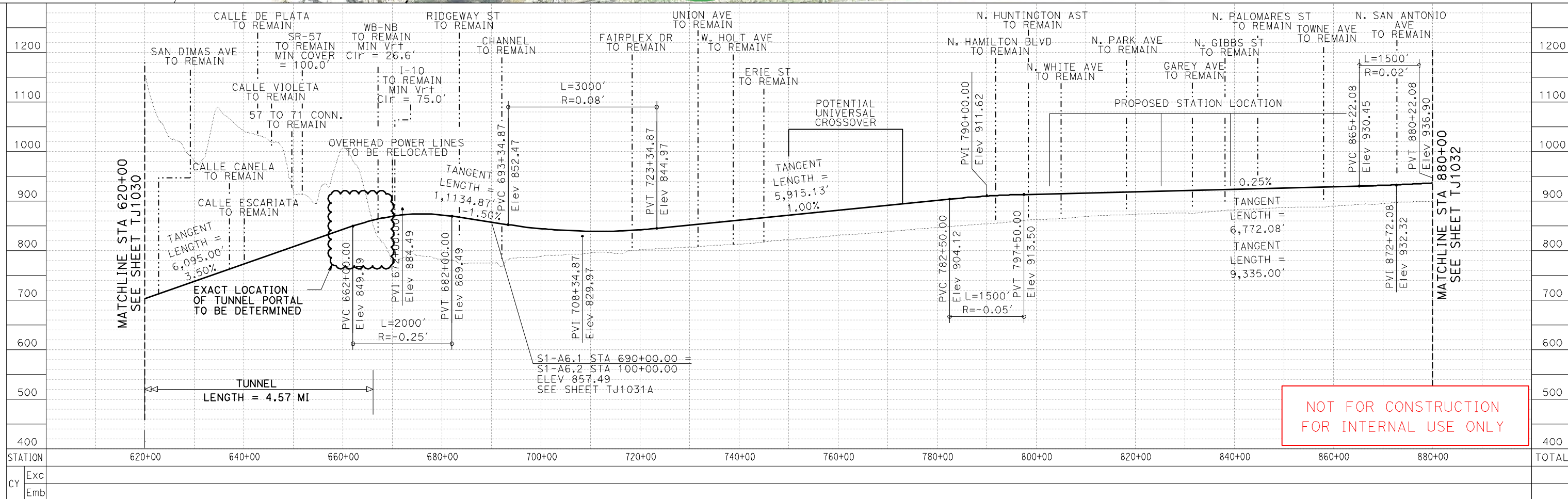
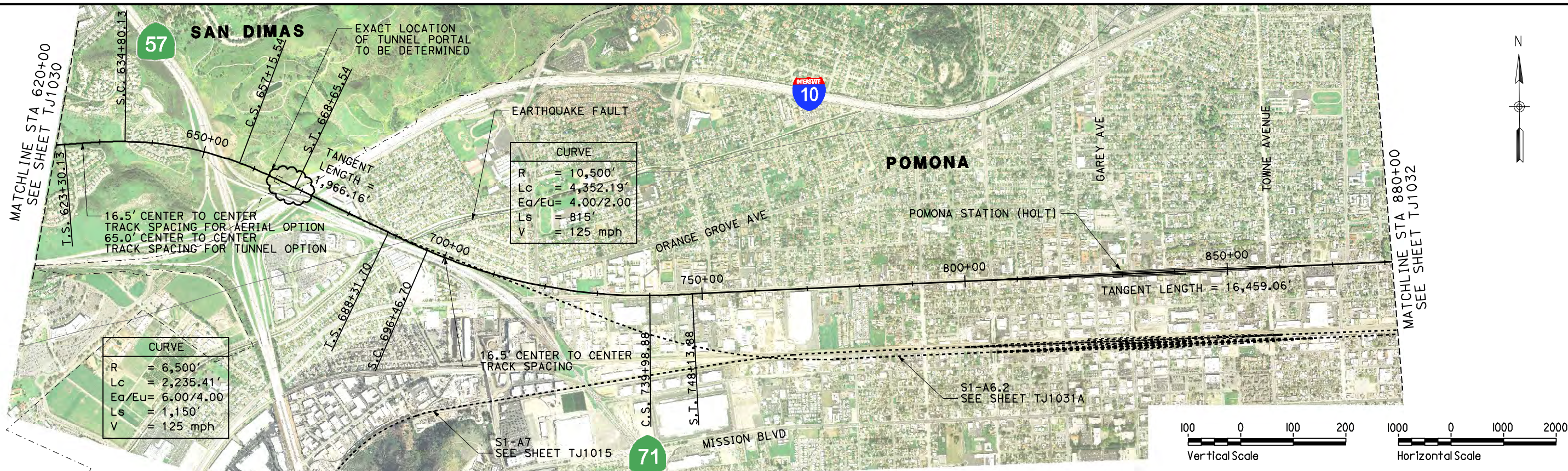
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					DRAWN BY C. Swanson					DRAWING NO. TJ1028	Subsection 1-LAUS to Ontario Int'l Airport S1-A5: I-605 to Ontario Airport via Metrolink Plan and Profile	SCALE As Shown	SHEET NO. 47
					CHECKED BY R. Simon								
					IN CHARGE M. Zdon								
					DATE 3-3-2011								
REV	DATE	BY	CHK	APP	DESCRIPTION								



DESIGNED BY M. Kim					DRAWN BY C. Swanson					CHECKED BY R. Simon					IN CHARGE M. Zdon					DATE 3-3-2011				
REV					DATE					BY					CHK					APP				
DESCRIPTION																								
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CONTRACT NO.					DRAWING NO.					TJ1029					SCALE					As Shown				
SHEET NO.					48																			

HNTB					401 B Street Suite 302 San Diego, CA 92101					CALIFORNIA HIGH-SPEED RAIL AUTHORITY					CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION					Subsection 1-LAUS to Ontario Int'l Airport S1-A6: I-605 to OMT via I-10/Holt Plan and Profile				
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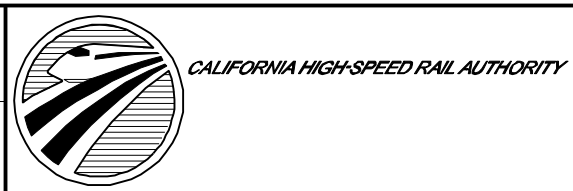


REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. Kim
DRAWN BY C. Swanson
CHECKED BY R. Simon
IN CHARGE M. Zdon
DATE 3-3-2011

HNTB
401 B Street
Suite 302
San Diego, CA 92101

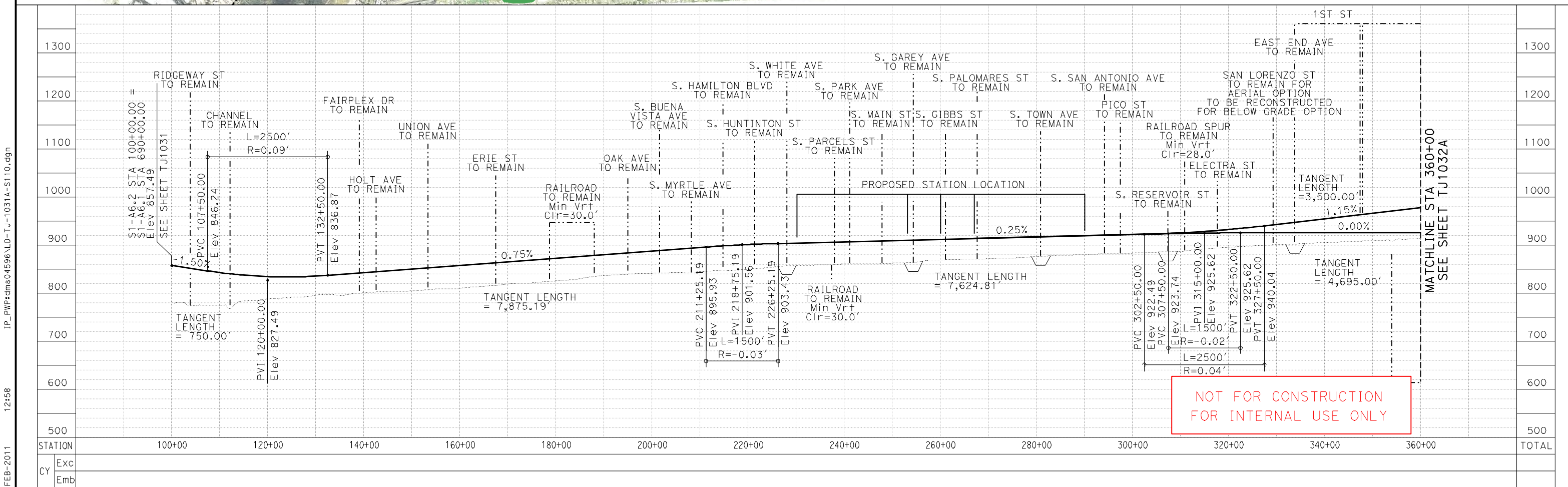
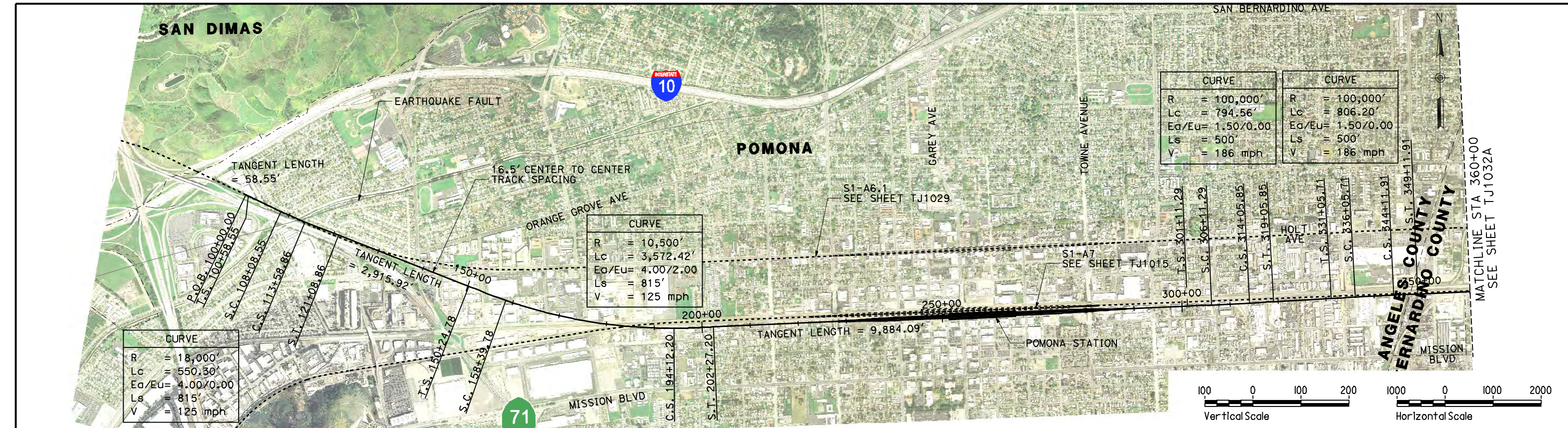
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 1-LAUS to Ontario Int'l Airport
S1-A6/A6.1: I-605 to ONT via I-10/Holt
Plan and Profile

CONTRACT NO.
DRAWING NO. TJ1031
SCALE As Shown
SHEET NO. 50



15-FEB-2011 12:58 IP_PWP:dms04596\LD-TJ-1031A-S110.dgn

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. Kim	<div><div>HNTB</div><div>401 B Street Suite 302 San Diego, CA 92101</div><div>CH2MHILL</div></div>
DRAWN BY C. Swanson	
CHECKED BY R. Simon	
IN CHARGE M. Zdon	
DATE 3-3-2011	

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT

LOS ANGELES TO SAN DIEGO SECTION

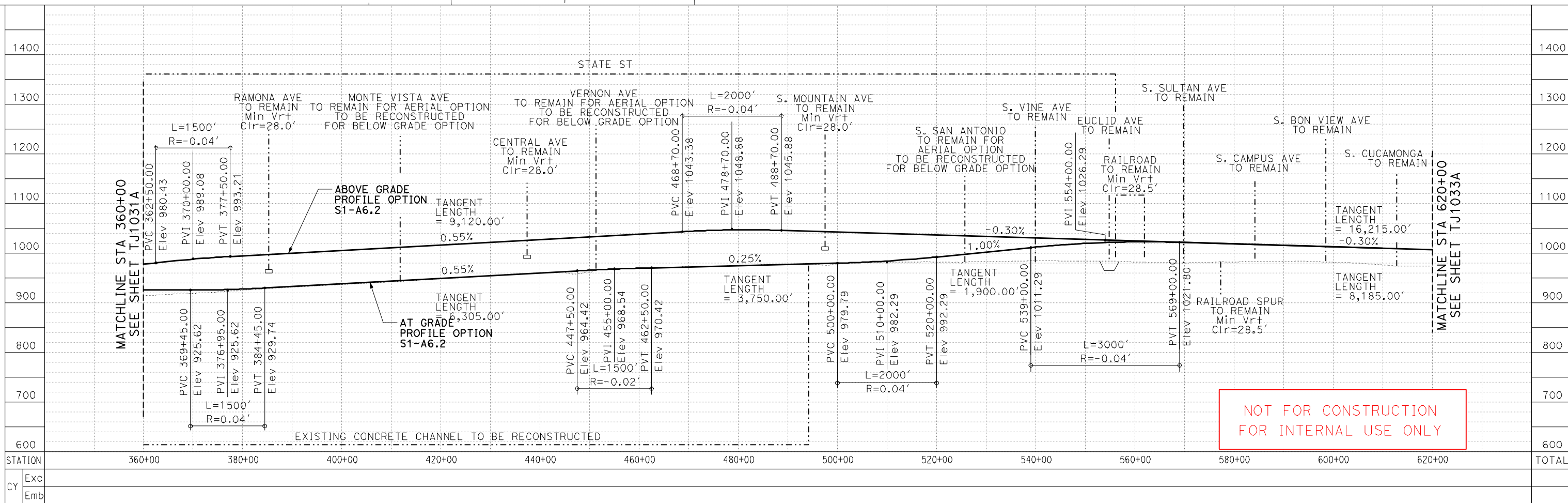
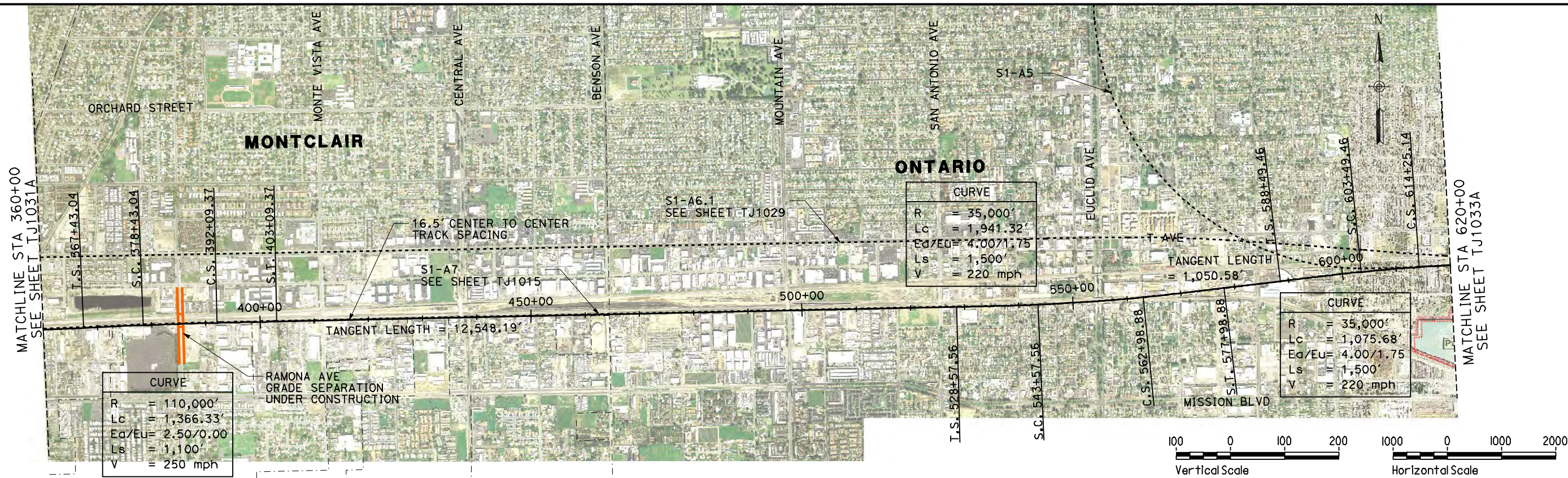
Subsection 1-LAUS to Ontario Int'l Airport
S1-A6.2: I-605/I-10 to ONT via I-10/First St
Plan and Profile

CONTRACT NO.

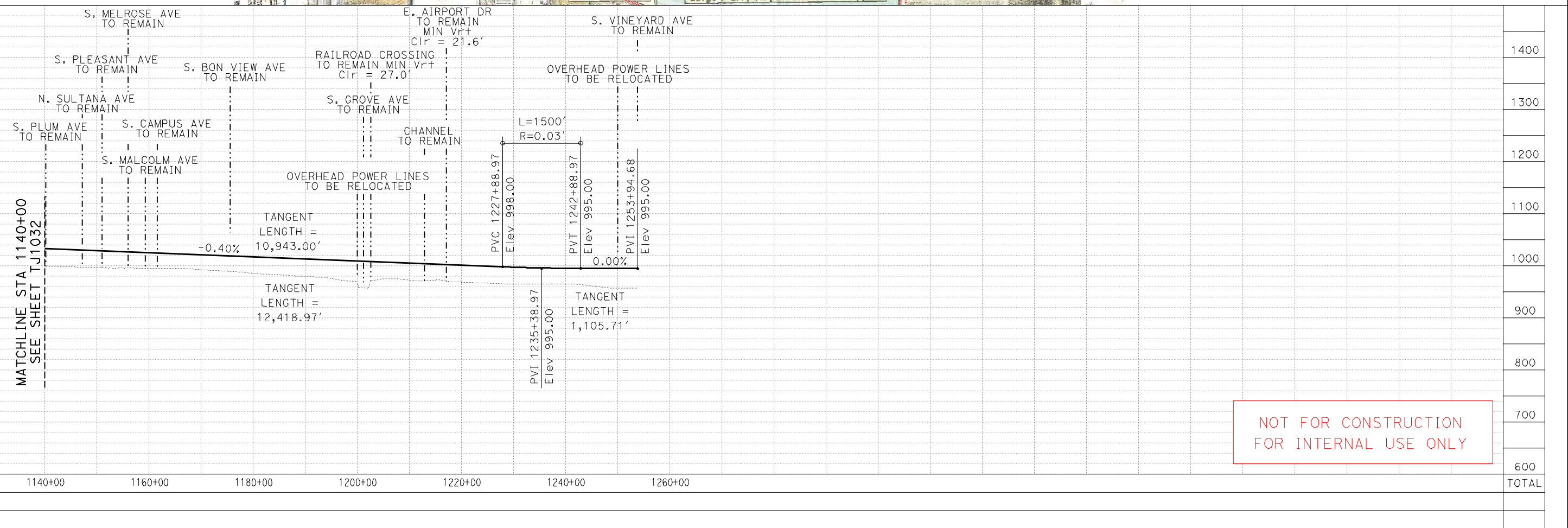
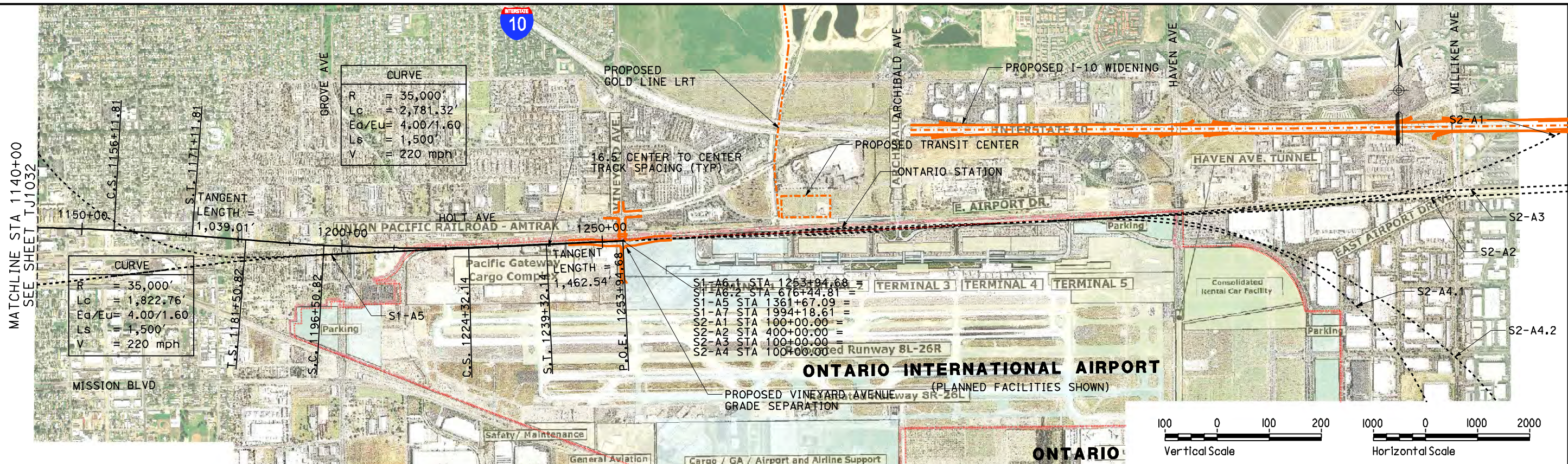
DRAWING NO.
TJ1031A

SCALE
As Shown

SHEET NO.
51



REVISIONS						DESIGNED BY		DRAWN BY		CHECKED BY		IN CHARGE		DATE		HNTB		CH2MHILL		CALIFORNIA HIGH-SPEED RAIL AUTHORITY		CONTRACT NO.		DRAWING NO.		SCALE		SHEET NO.	
REV	DATE	BY	CHK	APP	DESCRIPTION	M. Kim		C. Swanson		R. Simon		M. Zdon		3-3-2011		401 B Street								TJ1032A		As Shown		53	



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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. Kim
DRAWN BY
C. Swanson
CHECKED BY
R. Simon
IN CHARGE
M. Zdon
DATE
3-3-2011



401 B Street
Suite 302
San Diego, CA 92101





CALIFORNIA HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO SAN DIEGO SECTION**

Subsection 1-LAUS to Ontario Int'l Airport
S1-A6.1: I-605 to ONT via I-10/Holt
Plan and Profile

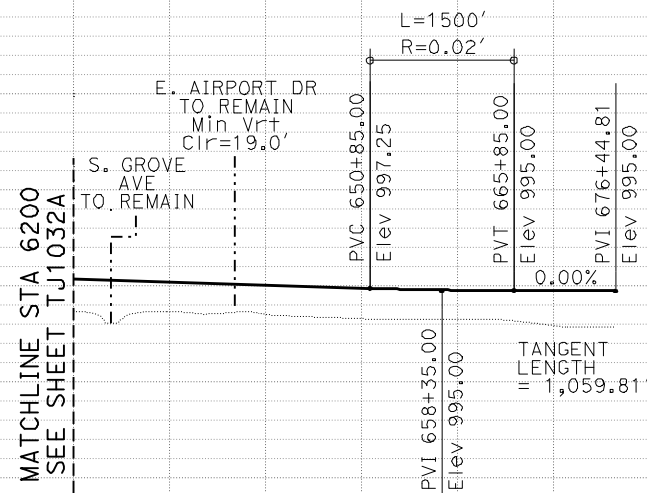
CONTRACT NO.

DRAWING NO.
TJ1033

SCALE
As Shown

SHEET NO.
54

caswanson 15-FEB-2011 13:04 IP_PWP:dms04596\LD-TJ-1033A-S110.dgn



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STATION						620+00	640+00	660+00	680+00	700+00	720+00	740+00	TOTAL	
CY	Exc													
	Emb													
						DESIGNED BY M. Kim		HNTB 401 B Street Suite 302 San Diego, CA 92101		CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO SAN DIEGO SECTION Subsection 1-LAUS to Ontario Int'l Airport S1-A6.2: I-605/I-10 to ONT via I-10/First St Plan and Profile		CONTRACT NO.	
					DRAWN BY C. Swanson	DRAWING NO. TJ1033A								
					CHECKED BY R. Simon	SCALE As Shown								
					IN CHARGE M. Zdon	SHEET NO. 55								
					DATE 3-3-2011									
REV	DATE	BY	CHK	APP	DESCRIPTION									